STATEWIDE CONTRACT (MY) RENEWAL AWARD

STATE OF TENNESSEE

DEPARTMENT OF GENERAL SERVICES

PURCHASING DIVISION



NUMBER : 4034393 BUYER : JAMES BUTTREY

BUYER PHONE : (615)532-9857

SWC NUMBER : 420 DATE ISSUED : 07/31/09

VENDOR NUMBER : 361115800-20 VENDOR PHONE : (615)771-2741

FEIN/SSN : 361115800 REQ AGENCY : 32110

DEPARTMENT OF GENERAL SERVIC

MOTOROLA INC (COMMUNICATIONS GRP)

341 COOL SPRINGS BLVD #300

TN 37067-FRANKLIN

AGENCY REQ NO.

TOPS REQ NO. : 1059977 FISCAL YEAR : 07 : 09/01/06 EFFECTIVE DATE EXPIRATION DATE : 08/31/10

DELIVERY CONTACT :

DELIVERY PHONE :

RADIOS, TWO-WAY, SWC 420 **OPTIONS & ACCESSORIES**

1. ORDERING PERIOD:

CONTRACT BEGIN ORDERING PERIOD DATE IS: 09/01/06

CONTRACT END ORDERING PERIOD DATE IS: 08/31/10

2. F.O.B. POINT:

DESTINATION

3. DELIVERY:

DELIVERY WILL BE MADE WITHIN: 045 DAYS ARO

UNLESS SPECIFIED DIFFERENTLY ON EACH LINE OR UNLESS AN ALTERNATE DELIVERY SCHEDULE IS INDICATED. AN ALTERNATE DELIVERY SCHEDULE IS ENCLOSED HEREIN: NO

4. PROMPT PAYMENT TERMS: PROMPT PAYMENT TERMS ARE: N/A

5. BID REFERENCE NO.:

YOUR BID REFERENCE NUMBER IS: 06-29414

6. AWARDED LINES:

YOU WERE AWARDED 00063 LINES FROM THE SOLICITATION NUMBER 2055328.

THESE LINES ARE INCLUDED AS A PART OF THIS CONTRACT.

7. THE TOTAL PURCHASES OF ANY INDIVIDUAL ITEM ON THE CONTRACT IS NOT KNOWN. THE PURCHASING DIVISION HAS ATTEMPTED TO GIVE AN ACCURATE ESTIMATE OF PROBABLE PURCHASES OF EACH ITEM FROM THE CURRENT CONTRACT PERIOD AND PROJECTED ESTIMATES FOR THE NEW CONTRACT PERIOD. THE PURCHASING DIVISION DOES NOT GUARANTEE THAT THE STATE WILL BUY ANY OR ALL ESTIMATED AMOUNTS OF ANY SPECIFIED ITEM OR ANY TOTAL AMOUNT.

> ALL TERMS AND CONDITIONS AS A PART OF SOLICITATION 2055328 INCLUDING ANY AMENDMENTS THERETO AND ALSO INCLUDING THE BIDDER'S PROPOSAL AS ACCEPTED BY THE STATE ARE INCLUDED HEREIN BY REFERENCE AND MADE PART HEREOF EXCEPT AS SPECIFIED HEREIN.

APPROVED: 📏

VENDOR COP

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PURPOSE OF INVITATION TO BID / SOURCE OF SUPPLY CONTRACT

THE PURPOSE OF THIS INVITATION TO BID IS TO ESTABLISH A TERM CONTRACT(S) TO SUPPLY: RADIO'S TWO-WAY WITH ACCESSORIES AND OPTIONS.

A TERM CONTRACT MEANS A CONTRACT IN WHICH A SOURCE OR SOURCES OF SUPPLY ARE ESTABLISHED FOR A SPECIFIED PERIOD OF TIME AT AN AGREED UPON UNIT PRICE(S).

FREIGHT F.O.B. STATE AND LOCAL GOVERNMENT AGENCIES

ALL QUOTATIONS SHALL BE F.O.B. DESTINATION. THE TERM F.O.B. DESTINATION SHALL MEAN DELIVERED AND UNLOADED ONTO THE RECEIVING DOCK OF ANY STATE AGENCY AND, WHEN APPLICABLE, ANY LOCAL GOVERNMENT AGENCY OR AUTHORIZED CORPORATION WITHIN THE STATE OF TENNESSEE, WITH ALL CHARGES FOR TRANSPORTATION AND UNLOADING PREPAID BY THE VENDOR/CONTRACTOR.

TERM OF CONTRACT

THE ANTICIPATED EFFECTIVE DATE AND EXPIRATION DATE OF THE CONTRACT ARE SHOWN ON THE FRONT OF THIS SOLICITATION. IF AWARD HAS NOT BEEN MADE BY THE ANTICIPATED EFFECTIVE DATE, THEN THE CONTRACT SHALL BECOME EFFECTIVE UPON THE DATE THE BID IS ACCEPTED AND CONTRACT AWARDED BY THE STATE, AS INDICATED BY THE PURCHASING AGENT'S SIGNATURE ON THE CONTRACT NOTICE OF AWARD (NOTE: THE CHANGE OF EFFECTIVE DATE MAY NOT RESULT IN A CHANGE OF THE ANTICIPATED EXPIRATION DATE.)

RENEWAL OPTIONS: THIS CONTRACT MAY BE RENEWED UPON SATISFACTORY COMPLETION OF THE INITIAL CONTRACT TERM. THE STATE RESERVES THE RIGHT TO EXECUTE UP TO (3) OPTIONS TO RENEW THIS CONTRACT ANNUALLY UNDER THE SAME TERMS AND CONDITIONS FOR A PERIOD NOT TO EXCEED 12 MONTHS EACH BY THE STATE. IT IS MUTUALLY UNDERSTOOD AND AGREED THAT THE STATE'S COMMITMENT IS LIMITED TO A BASE TERM CONTRACT, NOT TO EXCEED TWELVE (12) MONTHS, WHICH IS SUBJECT TO RENEWAL ANNUALLY AT THE STATE'S SOLE OPTION.

IT IS UNDERSTOOD AND AGREED THAT THE STATE RESERVES THE RIGHT TO EXTEND THE TERM CONTRACT PERIOD RESULTING FROM THIS SOLICITATION AN ADDITIONAL PERIOD OF TIME, NOT TO EXCEED 180 DAYS BEYOND THE NORMAL EXPIRATION DATE OF SUCH CONTRACT, UPON MUTUAL WRITTEN AGREEMENT BY BOTH PARTIES, UNDER THE SAME TERMS AND CONDITIONS. PROVIDED, HOWEVER, IN NO EVENT SHALL THE MAXIMUM TERM OF A CONTRACT EXCEED A TOTAL OF SIXTY (60) MONTHS.

DELIVERY TIME (DAYS)

ALL ITEMS MUST BE DELIVERED WITHIN APPROXIMATELY (45) DAYS AFTER RECEIPT OF A PURCHASE ORDER.

FIXED BID PERCENTAGE FOR CONTRACT PERIOD.

BID PERCENTAGES MUST BE FIXED FOR THE TERM OF THE CONTRACT.

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BID PERCENTAGES MUST BE FIXED FOR THE TERM OF THE CONTRACT.

REQUESTS FOR PRICE CHANGES BASED ON CATALOG PRICE LISTS

WRITTEN REQUESTS FOR PRICE CHANGES ON TERM CONTRACTS BASED ON CATALOG OR PRICE LISTS MAY BE SUBMITTED IN WRITING 365 DAYS AFTER AWARD AND IN INCREMENTS OF 12 MONTHS THERE AFTER.
THE REQUEST MUST INCLUDE COPIES OF OLD AND NEW PRICE LISTS
THAT REFLECT A CHANGE IN THE CONTRACTOR'S COST AND APPLY TO ALL CUSTOMERS. ALL REQUESTS FOR PRICE INCREASES MUST BE IN WRITING, MUST NOT CONSTITUTE INCREASES IN PROFIT, AND MUST CONTAIN DATA ESTABLISHING OR SUPPORTING THE GENERAL OR INDUSTRY WIDE NATURE OF THE CHANGE. AT THE OPTION OF THE STATE, (1) THE REQUEST MAY BE GRANTED, (2) THE CONTRACT MAY BE CANCELLED AND AWARDED TO THE NEXT LOWEST RESPONSIVE AND RESPONSIBLE BIDDER WHOSE BID MEETS THE REQUIREMENTS AND CRITERIA SET FORTH IN THE INVITATION TO BID, (3) THE COMMODITY/SERVICE MAY BE READVERTISED FOR AWARD AND SUBSEQUENT CANCELLATION OR (4) CONTINUE THE CONTRACT WITHOUT CHANGE.

THE PURCHASING DIVISION WILL ACCEPT OR REJECT ALL SUCH WRITTEN REQUESTS WITHIN THIRTY (30) WORKING DAYS OF THE DATE OF RECEIPT. IF APPROVED, THE PURCHASING DIVISION WILL NOTIFY THE CONTRACTOR OF THE DATE THE INCREASE WILL BE EFFECTIVE. CONTRACTORS MUST HONOR ALL PURCHASE ORDERS DATED UP TO THIRTY (30) DAYS SUBSEQUENT TO THE PRICE CHANGE REQUEST AT THE ORIGINAL PRICE. CONTRACTORS SHALL REPORT PRICE DECREASES IMMEDIATELY UPON RECEIPT OF THE DECREASE, AND THE STATE SHALL RECEIVE PROPORTIONATE PRICE REDUCTIONS.

APPROVAL OF PRICE INCREASES

PRICE INCREASES, WHEN GRANTED, WILL BE EFFECTIVE ON THE FIRST OF THE FOLLOWING MONTH AND WILL BE PUBLISHED IN THE PURCHASING CATALOG ISSUED DURING THE LAST WEEK OF EACH MONTH. NO INCREASE SHALL BE EFFECTIVE UNTIL APPROVED AND PUBLISHED. APPROVAL OF ANY PRICE INCREASE RENEWS THE FIRM PRICE PERIOD.

PRICE INCREASE REJECTION

WHEN THE STATE REJECTS A REQUEST FOR A PRICE INCREASE, THE VENDOR/CONTRACTOR WILL BE NOTIFIED OF THE STATES INTENTION PRIOR TO THE FIRST OF THE FOLLOWING MONTH. AT THE OPTION OF THE STATE, (1) THE CONTRACT MAY BE CANCELLED AND AWARDED TO THE NEXT LOWEST RESPONSIVE AND RESPONSIBLE BIDDER WHOSE BID MEETS THE REQUIREMENTS AND CRITERIA SET FORTH IN THE INVITATION TO BID, (2) THE COMMODITY/SERVICE MAY BE READVERTISED FOR AWARD AND SUBSEQUENT CANCELLATION, OR (3) CONTINUE THE CONTRACT WITHOUT CHANGE.

SUBSTITUTE EQUIPMENT OFFERED BY THE CONTRACTOR

THE POSTURE OF THE STATE IS TO STAY CURRENT IN ITS COMMUNICATION TECHNOLOGY, THEREFORE, THE PURCHASING DIVISION MAY ALLOW THE CONTRACTOR TO OFFER TO THE STATE SUBSTITUTE ITEM(S) DURING THE INITIAL CONTRACT PERIOD AND RENEWALS THEREOF PROVIDED THE FOLLOWING CONDITIONS ARE MET:

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ARE MET:

- A. THE FUNCTIONAL, TECHNICAL AND PERFORMANCE CHARACTERISTICS OF THE SUBSTITUTE ITEM(S) IS EQUAL TO OR EXCEED THE ITEM(S) IT IS TO REPLACE.
- B. THE PRICE OF THE SUBSTITUTE ITEM(S) IS EQUAL TO OR LESS THAN THE PRICE OF REPLACEMENT. THE PERFORMANCE SPECIFICATIONS SHALL BE THE SAME TO BETTER THAN THE PRODUCT REPLACEMENT.
- C. THE CONTRACTOR'S OFFER CONTAINS SUFFICIENT DETAILED INFORMATION TO SUBSTANTIATE THAT THE CONDITIONS SPECIFIED ABOVE ARE COMPLIANT.
- D. THE SUBSTITUTE ITEM HAS BEEN FORMALLY ANNOUNCED BY THE MANUFACTURER AS BEING COMMERCIALLY AVAILABLE AS OF THE DATE THE SUBSTITUTION REQUEST IS MADE.

AT ITS SOLE DISCRETION, THE PURCHASING DIVISION MAY ACCEPT OR REJECT ANY SUBSTITUTE ITEM(S) OFFERED BY THE CONTRACTOR. FURTHER IN THE EVENT OF MAJOR TECHNOLOGY ADVANCES, THE PURCHASING DIVISION MAY CANCEL ANY AND ALL OF THE CONTRACT ITEMS AND BID THE NEW TECHNOLOGY. RETURN GOODS POLICY FOR WARRANTY MATTERS

ALL COSTS ASSOCIATED WITH THE RETURN OF GOODS FOR REPAIR AND/OR REPLACEMENT UNDER WARRANTY SHALL BE DONE AT THE EXPENSE OF THE VENDOR.

WARRANTY PERIOD

A BIDDER WARRANTS THE PRODUCT TO BE FREE OF DEFECTS FOR

ONE YEAR FROM AGENCY RECEIPT OF PRODUCT.

REPORTS - SEMI-ANNUAL

THE SUCCESSFUL BIDDER SHALL BE REQUIRED TO SUBMIT SEMI-ANNUAL REPORTS IN EXCEL FORMAT TO THE PURCHASING AGENT LISTED ON THE AWARDED CONTRACT. THE SEMI-ANNUAL REPORTS WILL PROVIDE STATISTICAL DATA ON ALL PURCHASES MADE FROM THE AWARDED CONTRACT BY STATE AGENCIES. IF THE BIDDER EXTENDED THE BID OFFER TO LOCAL GOVERNMENTS AND AUTHORIZED NON-PROFIT AGENCIES, THE SEMI-ANNUAL REPORTS WILL ALSO PROVIDE STATISTICAL DATA ON ALL PURCHASES MADE FROM THE AWARDED CONTRACT BY LOCAL GOVERNMENT UNITS AND AUTHORIZED NON-PROFIT AGENCIES PURSUANT TO THE APPLICABLE TERM LOCATED IN THE INVITATION TO BID DOCUMENT TITLED "PURCHASES BY LOCAL GOVERNMENT AND AUTHORIZED NON-PROFIT AGENCIES."

THE REPORT IS TO BE DETAILED, BROKEN DOWN BY LINE ITEM AND INCLUDE THE FOLLOWING DATA:

- 1) CONTRACT NUMBER
- 2) AGENCY OR LOCAL GOVERNMENT UNIT OR NON-PROFIT AGENCY
- 3) CONTRACT LINE ITEM NUMBER
- 4) COMMODITY DESCRIPTION
- 5) LINE ITEM QUANTITY PURCHASED SEMI-ANNUALLY FOR EACH INDIVIDUAL AGENCY, GOVERNMENTAL UNIT OR NON-PROFIT AGENCY.

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AGENCY, GOVERNMENTAL UNIT OR NON-PROFIT AGENCY.

- 6) LINE ITEM DOLLAR AMOUNT (VOLUME) PURCHASED SEMI-ANNUALLY FOR EACH INDIVIDUAL AGENCY, GOVERNMENTAL UNIT OR NON-PROFIT AGENCY.
- 7) LINE ITEM QUANTITY PURCHASED TO DATE FOR EACH INDIVIDUAL AGENCY, GOVERNMENTAL UNIT OR NON-PROFIT AGENCY.
- 8) LINE ITEM DOLLAR AMOUNT (VOLUME) PURCHASED TO DATE FOR EACH INDIVIDUAL AGENCY, GOVERNMENTAL UNIT OR NON-PROFIT AGENCY.
- 9) SUB TOTALS FOR EACH CATEGORY ABOVE.
- 10) GRAND TOTALS FOR EACH CATEGORY ABOVE.

INSPECTION

ALL MATERIALS, EQUIPMENT, AND SUPPLIES ARE SUBJECT TO INSPECTION AND TESTING. ITEMS THAT DO NOT MEET SPECIFICATIONS WILL BE REJECTED. FAILURE TO REJECT UPON RECEIPT DOES NOT RELIEVE THE CONTRACTOR OF LIABILITY. WHEN SUBSEQUENT TESTS AFTER RECEIPT ARE CONDUCTED AND WHEN SUCH TESTS REVEAL DAMAGE OR FAILURE TO MEET SPECIFICATIONS, THE STATE MAY SEEK DAMAGES REGARDLESS OF WHETHER A PART OR ALL OF THE MERCHANDISE HAS BEEN CONSUMED.

PURCHASE ORDER RELEASE (SWC)

ORDERS FOR SERVICES OR SUPPLIES THAT ARE INCLUDED ON STATEWIDE CONTRACTS SHALL BE PREPARED BY AGENCIES ON DEPARTMENTAL PURCHASE ORDERS AND FORWARDED DIRECTLY TO THE VENDOR/CONTRACTOR. THESE PURCHASE ORDERS, WHEN RECEIVED BY THE VENDOR/CONTRACTOR, SERVE AS AUTHORIZATION FOR SHIPMENT. ITEMS FROM DIFFERENT CONTRACTS MAY BE COMBINED ON A SINGLE PURCHASE ORDER TO THE SAME VENDOR/CONTRACTOR TO MEET MINIMUM ORDER REQUIREMENTS. LOCAL GOVERNMENT AGENCIES OR AUTHORIZED CORPORATIONS, WHERE APPLICABLE, WILL ISSUE THEIR PURCHASE ORDER RELEASES DIRECTLY TO THE VENDOR/CONTRACTOR(S).

BILLING INSTRUCTIONS

THE CONTRACTOR SHALL INVOICE THE STATE ONLY AFTER COMPLETION OF THE WORK DESCRIBED IN THE PURCHASE ORDER/CONTRACT, AND AS REQUIRED BELOW PRIOR TO ANY PAYMENT.

THE CONTRACTOR SHALL SUBMIT AN INVOICE, WITH ALL NECESSARY SUPPORTING DOCUMENTATION, TO: STATE AGENCY BILLING ADDRESS

SUCH INVOICE SHALL CLEARLY AND ACCURATELY DETAIL THE FOLLOWING REQUIRED INFORMATION.

INVOICE/REFERENCE NUMBER; (ASSIGNED BY THE CONTRACTOR)
INVOICE DATE;
CONTRACT AND/OR PURCHASE ORDER NUMBER; (ASSIGNED BY THE STATE)
ACCOUNT NAME; PROCURING STATE AGENCY AND DIVISION NAME
ACCOUNT/CUSTOMER NUMBER; (UNIQUELY ASSIGNED BY THE CONTRACTOR TO
THE ABOVE-REFERENCED ACCOUNT NAME;
CONTRACTOR NAME;
CONTRACTOR FEDERAL EMPLOYER IDENTIFICATION NUMBER OR SOCIAL
SECURITY NUMBER; (AS REFERENCED IN CONTRACT)
CONTRACTOR CONTACT (NAME, PHONE, AND/OR FAX FOR THE INDIVIDUAL TO
CONTACT WITH BILLING QUESTIONS);

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CONTACT WITH BILLING QUESTIONS); CONTRACTOR REMITTANCE ADDRESS; DESCRIPTION OF DELIVERED ITEM OR SERVICE; AND TOTAL AMOUNT DUE FOR DELIVERED ITEM OR SERVICE.

THE CONTRACTOR UNDERSTANDS AND AGREES THAT THE INVOICE SHALL;

INCLUDE ONLY CHARGES FOR SERVICE DESCRIBED IN CONTRACT OR PURCHASE ORDER AND IN ACCORDANCE WITH PAYMENT TERMS AND CONDITIONS SET FORTH IN CONTRACT OR PURCHASE ORDER;

NOT INCLUDE ANY FUTURE WORK BUT WILL ONLY BE SUBMITTED FOR COMPLETED SERVICE; AND

NOT INCLUDE SALES TAX OR SHIPPING CHARGES (UNLESS OTHERWISE STIPULATED IN THE CONTRACT OR PURCHASE ORDER).

THE CONTRACTOR AGREES THAT TIMEFRAME FOR PAYMENT (AND ANY DISCOUNTS) BEGINS WHEN THE STATE IS IN RECEIPT OF A CORRECT INVOICE MEETING THE MINIMUM REQUIREMENTS ABOVE.

PAYMENT

IT SHALL BE THE RESPONSIBILITY OF THE "BILL TO" AGENCY TO MAKE PAYMENT. ANY QUESTIONS CONCERNING PAYMENT SHOULD BE ADDRESSED TO THE "BILL TO" AGENCY LISTED IN THE TOP, RIGHT SIDE OF THE PURCHASE ORDER, NOT THE PURCHASING DIVISION.

CANCELLATION

TERMINATION FOR CONVENIENCE: THE STATE MAY TERMINATE THIS CONTRACT WITHOUT CAUSE. SAID TERMINATION SHALL NOT BE DEEMED A BREACH OF CONTRACT BY THE STATE. THE STATE SHALL GIVE THE VENDOR/CONTRACTOR AT LEAST NINETY (90) DAYS WRITTEN NOTICE BEFORE THE EFFECTIVE CANCELATION DATE.

THE VENDOR/CONTRACTOR SHALL BE ENTITLED TO RECEIVE COMPENSATION FOR GOODS SHIPPED OR SERVICES SATISFACTORILY COMPLETED AS OF THE CANCELATION DATE, BUT IN NO EVENT SHALL THE STATE BE LIABLE TO THE VENDOR/CONTRACTOR FOR COMPENSATION FOR ANY GOODS OR SERVICES WHICH HAVE NOT BEEN RENDERED.

UPON SUCH TERMINATION, THE VENDOR/CONTRACTOR SHALL HAVE NO RIGHT TO ANY ACTUAL GENERAL, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR ANY OTHER CLAIMS WHATSOEVER OF ANY DESCRIPTION OR AMOUNT.

TERMINATION FOR CAUSE: IF THE VENDOR/CONTRACTOR FAILS TO FULFILL ITS OBLIGATIONS UNDER THIS CONTRACT IN A TIMELY OR PROPER MANNER, OR IF THE VENDOR/CONTRACTOR VIOLATES ANY TERMS OF THIS CONTRACT, THE STATE SHALL HAVE THE RIGHT TO IMMEDIATELY TERMINATE THE CONTRACT UPON WRITTEN NOTICE OF INTENT TO CANCEL. THE STATE SHALL HAVE THE RIGHT TO WITHHOLD PAYMENT IN EXCESS OF FAIR COMPENSATION FOR COMPLETED SERVICES. NOTWITHSTANDING THE ABOVE, THE CONTRACTOR SHALL NOT BE RELIEVED OF LIABILITY TO THE STATE FOR DAMAGES SUSTAINED BY VIRTUE OF ANY BREACH OF THIS CONTRACT BY THE CONTRACTOR.

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AT THE END OF ANY FISCAL YEAR ANY CONTRACT MAY BE CANCELED BY THE STATE WITHOUT NOTICE, IN THE EVENT THAT FUNDS TO SUPPORT THE CONTRACT BECOME UNAVAILABLE.

THE VENDOR/CONTRACTOR WILL BE REQUIRED TO HONOR ALL PURCHASE ORDERS THAT WERE PREPARED AND DATED PRIOR TO THE DATE OF THE TERMINATION, IF RECEIVED BY THE VENDOR/CONTRACTOR WITHIN A PERIOD OF THIRTY (30) DAYS FOLLOWING THE DATE OF TERMINATION.

NEW EQUIPMENT

ONLY EQUIPMENT COMMERCIALLY AVAILABLE TO THE GENERAL PUBLIC AS OF THE BID OPENING DATE MAY BE BID IN RESPONSE TO THIS INVITATION TO BID OR OFFERED AS A SUBSTITUTE UNDER A RESULTING CONTRACT. ONLY NEW EQUIPMENT-DEFINED AS EQUIPMENT THAT HAS NOT BEEN USED FOR ANY PURPOSE OTHER THAN PERFORMANCE TESTING PRIOR TO DELIVERY OR INSTALLATION OR FOR CERTIFICATION, EITHER DURING INITIAL BID EVALUATION OR SUBSEQUENTLY IS ACCEPTABLE FOR DELIVERY TO FULFILL PURCHASE ORDERS ISSUED UNDER RESULTING CONTRACT. NEW EQUIPMENT MAY INCLUDE INTERNAL REFURBISHED OR RECONDITIONED COMPONENTS NORMALLY USED IN THE MANUFACTURING PROCESS AND DEEMED AND WARRANTED AND SOLD AS NEW EQUIPMENT BY THE MANUFACTURER.

THIS CATEGORY IS FOR HF LOW BAND MOBILE SSB, ANALOG MOBILE

ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW LISTED FEATURES AS STANDARD:

FREQUENCY BAND: 2 - 30 MHZ.

CHANNELS: 20

CHANNEL SPACING: 20 KHZ.

MODE OF OPERATION: SIMPLEX & HALF DUPLEX

EMISSION: ANALOG

R.F. IMPEDANCE, RECEIVER & TRANSMITTER: 50 OHMS

TEMPERATURE RANGE: -30 TO +60 DEG. C.

13.8 VOLT D.C. OPERATION

R.F. SYNTHESIZED

FRONT PANEL FREQUENCY PROGRAMMABLE

SQUELCH

TRANSMITTER VSWR PROTECTION

TRANSMIT TIME LIMITER, ADJUSTABLE

METERING FACILITY (INTERNAL OR WITH P.C. OR EXTERNAL TEST SET)

BUILT-IN RECEIVER SPEAKER

TEST MICROPHONE

MIL-STD-810 C,D,E

CHANNEL SCAN

TRANSMITTER

R.F. OUTPUT POWER: 125 WATT PEP. FREQ. SPREAD, FULL SPECS: 28 MHZ

FREQ. STABILITY: 1 PPM

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FREQ. STABILITY: 1 PPM

SPURIOUS EMISSION: -64 DB PEP.

HARMONICS: -64 DB PEP.

CARRIER SUPPRESSION: -50 DB PEP

UNDESIRED SIDEBAND SUPPRESSION: -55 DB PEP.

INTERMODULATION: -31 DB PEP.

AUDIO DISTORTION: 3% @ 1 KHZ.

HUM & RIPPLE: -50 DB

INBAND NOISE: -60 DB (30 HZ BW)

EMISSIONS: J3E, R3E, H3E, J2A, J2B

RECEIVER:

R.F. SENSITIVITY (10 DB. SINAD SSB): 0.50 UV.

SELECTIVITY @ 30.0 KHZ.: -60 DB @ -1 KHZ.

IMAGE REJECTION: -80 DB.

IF REJECTION: -85 DB.

UNDESIRED SIDEBAND REJECTION: -55 DB0 -1 KHZ.

CROSS MODULATION REJECTION: -100 DB@ 100KHZ.

DESENSSITIZATION: -100 DB @ 100KHZ.

INTERMODULATION: -80 DB.

SPURIOUS REJECTION: -80 DB.

RECIPROCAL MIXING: -100 DBa 100KHZ

CLARIFIER RANGE: +/- 200 HZ IN 10 HZ STEPS

AUDIO DISTORTION: 3% MAX. @ 1 KHZ.

FREQ. SPREAD, FULL SPECS.: 8 MHZ.

AUDIO POWER: 5 WATTS

******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS******

I. AVAILABLE MANUFACTURER OPTIONS:

AUTOMATIC LINK ESTABLISHMENT (ALE) FEDERAL STANDARD 1045 & MIL STD188/ 141/A AUTOMATIC ANTENNA TUNER

HIGH STABILITY OSCILLATOR FAX / DATA MODEM AC OPERATION

DIGITAL NOISE BLANKER

EXTERNAL SPEAKER

II. AVAILABLE VENDOR OPTIONS:

RG-8/U COAXIAL CABLE

PL-259 CONNECTOR FOR RG-8/U CABLE

N-MALE CONNECTOR FOR RG-8/U CABLE

CATEGORY 101- VHF LOW-BAND 60 WATT 128 CHANNEL MOBILE RADIO

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THIS CATEGORY IS FOR VHF LOW-BAND, 128 CHANNEL, FRONT OR REAR-MOUNT, ANALOG MOBILE RADIOS

ALL' RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW LISTED FEATURES AS STANDARD:

FREQUENCY BAND: 42 - 50 MHZ.

CHANNELS: 128

CHANNEL SPACING: 20 KHZ.

MODE OF OPERATION: SIMPLEX AND HALF DUPLEX

EMISSION: ANALOG

R.F. IMPEDANCE, RECEIVER & TRANSMITTER: 50 OHMS

TEMPERATURE RANGE: -30 TO +60 DEG. C.

ALPHA-NUMERIC, ILLUMINATED, REMOTE MOUNT CONTROL HEAD, 10 CHARACTERS MINIMUM

R.F. SYNTHESIZED

P.C. PROGRAMMABLE WITH UNIT CLONING VIA P.C.

P.C. ASSIGNABLE BUTTON FUNCTIONS

CTCSS AND DCSS CAPABILITY, ALL EIA TONES AND DIGITAL CODES

OPERATOR PROGRAMMABLE PRIORITY CTCSS/DCSS SCAN
SQUELCH TAIL ELIMINATION
REPEATER TALK AROUND (DIRECT) BUTTON
DTMF SELECTIVE CALL DECODING WITH HEADLIGHT AND HORN ALERTING
BUSY CHANNEL TRANSMIT INHIBIT WITH BUSY CHANNEL INDICATOR
TRANSMITTER VSWR PROTECTION
TRANSMIT TIME LIMITER, ADJUSTABLE
STANDARD MOBILE MICROPHONE
STANDARD EXTERNAL MOBILE SPEAKER
AUDIO SOURCE FOR WEATHER PROOF P.A. SPEAKER
COMPLETE MOUNTING HARDWARE, CONTROL CABLING, AND WIRING HARNESSES

TRANSMITTER:

RECEIVER:

R.F. OUTPUT POWER:60W.

FREQ. SPREAD, FULL SPECS:8 MHZ
FREQ. STABILITY: +/-0.0005%

ADJACENT CH POWER: -70 DB. FM HUM AND NOISE: -40 DB.

EMISSIONS: 16K0F3E

AUDIO DISTORTION: 3% OR LESS

R.F. SENSITIVITY (12 DB.SINAD):0.35 UV.

INTERMODULATION: -80 DB

ADJACENT CHANNEL SELECTIVITY: -80 DB

SPURIOUS & IMAGE REJECTION: -80 DB

AUDIO DISTORTION: 3% OR LESS

FREQ. SPREAD, FULL SPECS.: 8 MHZ.

******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS*******
I . AVAILABLE MANUFACTURE OPTIONS:
AC POWER SUPPLY
FACTORY PROGRAMING
BASE MICROPHONE

II. AVAILABLE VENDOR OPTIONS:

VOICE STORAGE CROSS-BAND REPEATER WHIP AND LOADED MOBILE ANTENNAS WITH 3/4" HOLE MOUNTING AND SILVER

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WHIP AND LOADED MOBILE ANTENNAS WITH 3/4" HOLE MOUNTING AND SILVER PLATED CONNECTOR
WEATHER PROOF P.A. SPEAKER
CONTROL STATION OPTION

CATEGORY 102- DUAL BAND: VHF LOW BAND/VHF HIGH BAND/UHF 160 CHANNEL 100-WATT MOBILE RADIO.

THIS CATEGORY IS FOR VHF LOW-BAND, HIGH-BAND AND UHF, 160-CHANNEL, REAR-MOUNT, ANALOG, MOBILE RADIOS COMPATIBLE WITH DEPT OF SAFETY AND DEPARTMENT OF TRANSPORTATION EXISTING KENWOOD TK690 AND TK790 SERIES RADIOS.

ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW LISTED FEATURES AS STANDARD:

FREQUENCY BAND: 42-50/150-174/450-470 MHZ.

CHANNELS: 160

CHANNEL SPACING: 12.5 AND 30 KHZ. (VHF), 12.5 AND 25.0 KHZ.(UHF)

MODE OF OPERATION: SIMPLEX AND HALF DUPLEX

EMISSION: ANALOG

R.F. IMPEDANCE, RECEIVER & TRANSMITTER: 50 OHMS

TEMPERATURE RANGE: -30 TO +60 DEG. C.

ALPHA-NUMERIC, ILLUMINATED, SINGLE OR DUAL CONTROL HEAD CONFIGURATION, 14 CHARACTER MINIMUM PER LINE

R.F. SYNTHESIZED

P.C. PROGRAMMABLE WITH UNIT CLONING VIA P.C.

P.C. ASSIGNABLE BUTTON FUNCTIONS

CTCSS AND DCSS CAPABILITY, ALL EIA TONE AND DIGITAL CODES

OPERATOR SELECTABLE CTCSS AND/OR DCSS CODES, NOT SLAVED TO CHANNEL SELECTION, 16 CODES MINIMUM DYNAMICALLY ASSIGNABLE SCAN GROUPS - MINIMUM OF 50 GROUPS

OPERATOR PROGRAMMABLE PRIORITY CTCSS/DCSS SCAN OPERATOR PROGRAMMABLE HOME CHANNEL SQUELCH TAIL ELIMINATION

REPEATER TALK AROUND (DIRECT) BUTTON

BUSY CHANNEL TRANSMIT INHIBIT WITH BUSY CHANNEL INDICATOR TRANSMITTER VSWR PROTECTION
TRANSMIT TIME LIMITER, ADJUSTABLE
STANDARD MOBILE MICROPHONE
INTERNAL SPEAKER
AUDIO SOURCE FOR WATHER PROOF P. A. SPEAKER
COMPLETE MOUNTING HARDWARE AND WIRING HARNESSES

TRANSMITTER:

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R.F. OUTPUT POWER: 100 / 45 / 35-WATT FREQ. SPREAD, FULL SPECS: 24/20 MHZ FREQ. STABILITY: +/- 2/2 PPM SPURIOUS & HARMONICS: -80 DB. FM HUM AND NOISE: -43 DB. NB. / -50 DB. WB. AUDIO DISTORTION: 3% @ 1 KHZ. EMISSIONS: 11K0F3E, 16K0F3E

RECEIVER:

R.F. SENSITIVITY (12 DB. SINAD): 0.35 UV.

SELECTIVITY @ 12.5 KHZ.: -65 DB

a 25.0 KHZ.: -80 DB.

a 30.0 KHZ.: -80 DB.

INTERMODULATION: -70 DB. NB., -80 DB. WB. SPURIOUS & IMAGE REJECTION: -90/ -85 DB. AUDIO POWER @ DISTORTION: 7.5 W. @ 3% FREQ. SPREAD, FULL SPECS.: 24/20 MHZ

********OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS*******

I. AVAILABLE MANUFACTURER OPTIONS:

ILLUMINATED DTMF MICROPHONE,
INTERNAL SPEAKER,
A. C. POWER SUPPLY,
CONTROL STATION DESK TOP MICROPHONE,
FACTORY PROGRAMMING

II. AVAILABLE VENDOR OPTIONS:

CROSS-BAND VEHICULAR REPEATER,

1/4 WAVE AND GAIN MOBILE ANTENNAS WITH 3/4" HOLE MOUNTING AND SILVER
PLATED CONNECTORS,
WEATHER PROOF P. A. SPEAKER,
DTMF SELECTIVE CALL DECODING WITH HEADLIGHT AND HORN ALERTING

CATEGORY 103- VHF HIGH BAND/UHF 25W. 128 CHANNEL MOBILE RADIO

THIS CATEGORY IS FOR VHF/UHF, 25 WATT, 128 CHANNEL FRONT-MOUNT, ANALOG, MOBILE RADIOS

ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW LISTED FEATURES AS STANDARD:

FREQUENCY BAND: 150 - 174/450 - 470 MHZ.

CHANNELS: 128

CHANNEL SPACING: 30 KHZ. / 25 KHZ. / 12.5 KHZ.

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CHANNEL SPACING: 30 KHZ. / 25 KHZ. / 12.5 KHZ.

MODE OF OPERATION: SIMPLEX AND HALF DUPLEX

EMISSION: ANALOG

R.F. IMPEDANCE, RECEIVER & TRANSMITTER: 50 OHMS

TEMPERATURE RANGE: -30 TO +60 DEG. C.

8 CHARACTER MINIMUM, ALPHA-NUMERIC DISPLAY, BACKLIT

R.F. SYNTHESIZED

P.C. PROGRAMMABLE WITH UNIT CLONING VIA P.C.

CTCSS AND DCSS CAPABILITY, ALL EIA TONES AND DIGITAL CODES

RECEIVER CHANNEL MONITOR BUTTON

OPERATOR PROGRAMMABLE PRIORITY CTCSS/DCSS SCAN

SQUELCH TAIL ELIMINATION

BUSY CHANNEL INDICATOR

TRANSMITTER VSWR PROTECTION

TRANSMIT TIME LIMITER, ADJUSTABLE

STANDARD MOBILE MICROPHONE

INTERNAL SPEAKER

INTERNAL PUBLIC ADDRESS AMPLIFIER (P.A.)

12 VDC, NEGATIVE GROUND, PRIMARY POWER

COMPLETE MOUNTING HARDWARE AND WIRING HARNESSES

MEETS MIL810 SPECIFICATIONS FOR SHOCK AND VIBRATION

TRANSMITTER:

R.F. OUTPUT POWER: 25W.

FREQ. SPREAD, FULL SPECS.: 24/20

FREQ. STABILITY: +/- 2.5 PPM

SPURIOUS & HARMONICS: -70 DB.

FM HUM AND NOISE: -45 DB WB, -40 DB NB.

AUDIO DISTORTION: 3% a 1 KHZ WB, 5% a 1 KHZ NB.

EMISSIONS: 11K0F3E, 16K0F3E.

RECEIVER:

R.F. SENSITIVITY (12 DB. SINAD): 0.28 UV WB, 0.35 UV NB.

SELECTIVITY: -75 DB WB, -65 DB NB.

INTERMODULATION: -70 DB WB, -60 DB NB.

SPURIOUS & IMAGE REJECTION: -75 DB.

AUDIO POWER a DISTORTION: 4W a 5%

FREQ. SPREAD, FULL SPECS., 24/20 MHZ

*******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS*******

I. AVAILABLE MANUFACTURER OPTIONS:

ILLUMINATED DTMF MICROPHONE,

EXTERNAL SPEAKER,

A. C. POWER SUPPLY,

CONTROL STATION DESK TOP MICROPHONE,

FACTORY PROGRAMMING

II. AVAILABLE VENDOR OPTIONS:

1/4 GAIN MOBILE ANTENNAS WITH 3/4" HOLE MOUNT OR ON-GLASS MOUNTING &

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1/4 GAIN MOBILE ANTENNAS WITH 3/4" HOLE MOUNT OR ON-GLASS MOUNTING & SILVER PLATED CONNECTORS, WEATHER PROOF P.A. SPEAKER

CATEGORY 104 - VHF HIGH BAND 50W DIGITAL MOBILE RADIO

THIS CATEGORY IS FOR VHF HIGH-BAND, 512 CHANNEL, FRONT-MOUNT, P25 COMPATIBLE DIGITAL MOBILE RADIOS

ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW LISTED FEATURES AS STANDARD:

FREQUENCY BAND: 136 - 174 MHZ.

CHANNELS: 512

ZONES OR CHANNEL GROUPS: 50

SCAN LISTS: 16 WITH 31 CHANNELS PER LIST

CHANNEL SPACING: 12.5/15/20/25/30 KHZ. ANALOG - 12.5 KHZ. DIGITAL

MODE OF OPERATION: SIMPLEX AND HALF DUPLEX

EMISSION: ANALOG AND P25 DIGITAL, IMBE VOCODING

R.F. IMPEDANCE, RECEIVER & TRANSMITTER: 50 OHMS

TEMPERATURE RANGE: -30 TO +60 DEG. C.

ALPHA-NUMERIC, ILLUMINATED, CONTROL PANEL

R.F. SYNTHESIZED

P.C. PROGRAMMABLE WITH UNIT CLONING VIA P.C.

P.C. ASSIGNABLE BUTTON FUNCTIONS

CTCSS AND DCSS CAPABILITY

OPERATOR PROGRAMMABLE PRIORITY CTCSS/DCSS SCAN
SQUELCH TAIL ELIMINATION
REPEATER TALK AROUND (DIRECT) BUTTON
BUSY CHANNEL TRANSMIT INHIBIT WITH BUSY CHANNEL INDICATOR
TRANSMITTER VSWR PROTECTION
TRANSMIT TIME LIMITER, ADJUSTABLE
STANDARD MOBILE MICROPHONE
INTERNAL SPEAKER
AUDIO SOURCE FOR WEATHER PROOF P.A. SPEAKER
COMPLETE MOUNTING HARDWARE AND WIRING HARNESSES

TRANSMITTER:

R.F. OUTPUT POWER: 50 W.
FREQ. SPREAD, FULL SPECS.: 38 MHZ.
FREQ. STABILITY: +/- 2.0 PPM
SPURIOUS & HARMONICS: -70 DB.
FM HUM AND NOISE: -40 DB.
AUDIO DISTORTION: LESS THAN 2% @ 1 KHZ.
EMISSIONS: 11K0F3E, 16K0F3E
8K10F1E, 8K10F1D.

RECEIVER:

R.F. SENSITIVITY (12 DB. SINAD): 0.25 UV.

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R.F. SENSITIVITY (12 DB. SINAD): 0.25 UV. SELECTIVITY DIGITAL: -60 DB.

ANALOG a 12.5 KHZ.: -76 DB.

ANALOG @ 25/30 KHZ.: -83 DB.

INTERMODULATION: -80 DB.

SPURIOUS & IMAGE REJECTION: -90 DB.

AUDIO POWER @ DISTORTION: 1.5 W. @ 3%

FREQ. SPREAD, FULL SPECS.: 38 MHZ.

*******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS*******

I. AVAILABLE MANUFACTURER OPTIONS:

ILLUMINATED DTMF MICROPHONE, EXTERNAL SPEAKER, A. C. POWER SUPPLY, CONTROL STATION DESK TOP MICROPHONE, FACTORY PROGRAMMING

II. AVAILABLE VENDOR OPTIONS:

1/4 WAVE AND GAIN MOBILE ANTENNAS WITH 3/4" HOLE MOUNTING AND SILVER PLATED CONNECTORS, WEATHER PROOF P.A. SPEAKER

CATEGORY 105- VHF HIGH BAND/UHF 160 CHANNEL DUAL CONTROL HEAD MOBILE RADIO

THIS CATEGORY IS FOR VHF HIGH-BAND AND UHF, 160 CHANNEL, REAR-MOUNT, ANALOG, MOBILE RADIOS WITH DUAL (FRONT AND REAR) CONTROL HEADS

ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW LISTED FEATURES AS STANDARD:

FREQUENCY BAND: 150 - 174/450 -470 MHZ.

CHANNELS: 160

CHANNEL SPACING: 12.5 AND 30 KHZ. (VHF), 12.5 AND 25 KHZ. (UHF)

MODE OF OPERATION: SIMPLEX AND HALF DUPLEX

EMISSION: ANALOG

R.F. IMPEDANCE, RECEIVER & TRANSMITTER: 50 OHMS

TEMPERATURE RANGE: -30 TO +60 DEG. C.

ALPHA-NUMERIC, ILLUMINATED, REMOTE MOUNT CONTROL HEAD, 14 CHARACTERS MINIMUM PER LINE

R.F. SYNTHESIZED

P.C. PROGRAMMABLE WITH UNIT CLONING VIA P.C.

P.C. ASSIGNABLE BUTTON FUNCTIONS

CTCSS AND DCSS CAPABILITY, ALL EIA TONE AND DIGITAL CODES OPERATOR PROGRAMMABLE PRIORITY CTCSS/DCSS SCAN

OPERATOR PROGRAMMABLE PRIORITY CTCSS/DCSS SCAN

OPERATOR PROGRAMMABLE HOME CHANNEL SQUELCH TAIL ELIMINATION REPEATER TALK AROUND (DIRECT) BUTTON BUSY CHANNEL TRANSMIT INHIBIT WITH BUSY CHANNEL INDICATOR TRANSMITTER VSWR PROTECTION TRANSMIT TIME LIMITER, ADJUSTABLE STANDARD MOBILE MICROPHONE STANDARD EXTERNAL MOBILE SPEAKER (I.E. NOT WITHIN RADIO ENCLOSURE) AUDIO SOURCE FOR WEATHER PROOF P.A. SPEAKER KEYLOCK RADIO MOUNT COMPLETE MOUNTING HARDWARE, CONTROL CABLING, AND WIRING HARNESSES TRANSMITTER: R.F. OUTPUT POWER: 100/75 W. FREQ. SPREAD, FULL SPECS.: 24/20 MHZ FREQ. STABILITY: +/- 2/2 PPM SPURIOUS & HARMONICS: -80 DB. FM HUM AND NOISE: -43 DB. NB. / -50 DB. WB. AUDIO DISTORTION: 3% @ 1 KHZ.. EMISSIONS: 11K0F3E, 16K0F3E RECEIVER:

R.F. SENSITIVITY (12 DB. SINAD): 0.35 UV.

SELECTIVITY @ 12.5 KHZ.: -65 DB.

@ 25.0 KHZ.: -75 DB.

@ 30.0 KHZ.: -80 DB.

INTERMODULATION: -70 DB. NB. / -80 DB. WB. SPURIOUS & IMAGE REJECTION: -90/ -90 DB. AUDIO POWER @ DISTORTION: 7.5 W. @ 3% FREQ. SPREAD, FULL SPECS.: 24/20 MHZ.

******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS******

I. AVAILABLE MANUFACTURER OPTIONS:

ILLUMINATED DTMF MICROPHONE, 25 FT. CONTROL CABLES, FACTORY PROGRAMMING.

II. AVAILABLE VENDOR OPTIONS:

1/4 WAVE AND GAIN MOBILE ANTENNAS WITH 3/4" HOLE MOUNTING AND SILVER PLATED CONNECTORS, WEATHER PROOF P.A. SPEAKER, DTMF ENCODING CAPABILITY, PTT HEADSET AND PTT HANDSET OPTIONS FOR REAR CONTROL HEAD, DTMF SELECTIVE CALL DECODING WITH HEADLIGHT AND HORN ALERTING.

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CATEGORY 106- VHF HIGH BAND/UHF PASSPORT TRUNKING MOBILE RADIO

THIS CATEGORY IS FOR VHF/UHF, 30 WATT, 512 CHANNEL, FRONT-MOUNT, ANALOG, MOBILE RADIOS COMPATIBLE WITH TN HOMELAND SECURITY DISTRICT 7 UHF PASSPORT SYSTEM

ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW LISTED FEATURES AS STANDARD:

FREQUENCY BAND: 136 - 174/400 - 470 MHZ.

CHANNELS: 512

ZONES: 128

DUAL PRIORITY AND MULTI-ZONE SCAN WITH TALKBACK SCAN

CHANNEL SPACING: 12.5/15/25/30 KHZ. / 12.5/25 KHZ.

MODE OF OPERATION: SIMPLEX AND HALF DUPLEX

EMISSION: ANALOG

R.F. IMPEDANCE, RECEIVER & TRANSMITTER: 50 OHMS

TEMPERATURE RANGE: -30 TO +60 DEG. C.

NUMERIC DISPLAY (ALPHA-NUMERIC ACCEPTABLE)

R.F. SYNTHESIZED

P.C. PROGRAMMABLE WITH UNIT CLONING VIA P.C.

CTCSS AND DCSS CAPABILITY

RECEIVER CHANNEL MONITOR BUTTON

OPERATOR PROGRAMMABLE PRIORITY CTCSS/DCSS SCAN

SQUELCH TAIL ELIMINATION

BUSY CHANNEL INDICATOR

TRANSMITTER VSWR PROTECTION

TRANSMIT TIME LIMITER, ADJUSTABLE

STANDARD MOBILE MICROPHONE

INTERNAL SPEAKER

12 VDC, NEGATIVE GROUND, PRIMARY POWER

COMPLETE MOUNTING HARDWARE AND WIRING HARNESSES

MEETS MIL810 SPECIFICATIONS FOR SHOCK AND VIBRATION

TRANSMITTER:

R.F. OUTPUT POWER: 30/30W.

FREQ. SPREAD, FULL SPECS.: 38/70

FREQ. STABILITY: +/- 3 PPM

SPURIOUS & HARMONICS: -70/-70 DB.

FM HUM AND NOISE: -50 DB. WIDE -45 DB. NARROW

AUDIO DISTORTION: 3% @ 1 KHZ.

EMISSIONS: 16K0F3E / 11K0F3E

RECEIVER:

R.F. SENSITIVITY (12 DB. SINAD): 0.28/0.28 UV.

SELECTIVITY

a 12.5/15 KHZ.: -70/-67 DB.

a 25/30.0 KHZ.: -80/-80 DB.

INTERMODULATION: -75 DB.

SPURIOUS & IMAGE REJECTION: -90/-85 DB.

AUDIO POWER a DISTORTION: 4 W. a 5%

FREQ. SPREAD, FULL SPECS.: 38/70 MHZ

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*******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS*******

I. AVAILABLE MANUFACTURER OPTIONS:

ILLUMINATED DTMF MICROPHONE,
EXTERNAL SPEAKER,
A. C. POWER SUPPLY,
CONTROL STATION DESK TOP MICROPHONE,
FACTORY PROGRAMMING

II. AVAILABLE VENDOR OPTIONS:

1/4 GAIN MOBILE ANTENNAS WITH 3/4" HOLE OR ON-GLASS MOUNTING & SILVER PLATED CONNECTORS, WEATHER PROOF P.A. SPEAKER

CATEGORY 107- VHF HIGH BAND/UHF DIGITAL 100W MOBILE RADIO

THIS CATEGORY IS FOR VHF HIGH-BAND AND UHF, 255 CHANNEL, REAR-MOUNT, APCO-25 COMPATIBLE DIGITAL MOBILE RADIOS

ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW LISTED FEATURES AS STANDARD:

FREQUENCY BAND: 150 - 174/450 -470 MHZ.

CHANNELS: 255

CHANNEL SPACING: 12.5 AND 30 KHZ. (VHF), 12.5 AND 25 KHZ. (UHF)

MODE OF OPERATION: SIMPLEX AND HALF DUPLEX

EMISSION: ANALOG AND APCO 25 DIGITAL, IMBE VOCODING

R.F. IMPEDANCE, RECEIVER & TRANSMITTER: 50 OHMS

TEMPERATURE RANGE: -30 TO +60 DEG. C.

ALPHA-NUMERIC, ILLUMINATED, REMOTE MOUNT CONTROL HEAD, 11 CHARACTER MINIMUM

R.F. SYNTHESIZED

P.C. PROGRAMMABLE WITH UNIT CLONING VIA P.C.

P.C. ASSIGNABLE BUTTON FUNCTIONS

CTCSS AND DCSS CAPABILITY, ALL EIA TONE AND DCSS CODES

OPERATOR PROGRAMMABLE PRIORITY CTCSS/DCSS SCAN

SQUELCH TAIL ELIMINATION

REPEATER TALK AROUND (DIRECT) BUTTON

BUSY CHANNEL TRANSMIT INHIBIT WITH BUSY CHANNEL INDICATOR

TRANSMITTER VSWR PROTECTION

TRANSMIT TIME LIMITER, ADJUSTABLE

STANDARD MOBILE MICROPHONE

STANDARD EXTERNAL MOBILE SPEAKER (I.E. NOT WITHIN RADIO ENCLOSURE)

AUDIO SOURCE FOR WEATHER PROOF P.A. SPEAKER

KEYLOCK RADIO MOUNT

COMPLETE MOUNTING HARDWARE, CONTROL CABLING, AND WIRING HARNESSES MEETS MIL810 SPECIFICATIONS FOR SHOCK AND VIBRATION

MEETS MIL810 SPECIFICATIONS FOR SHOCK AND VIBRATION

TRANSMITTER:

R.F. OUTPUT POWER: 100/100W.
FREQ. SPREAD, FULL SPECS.: 24/20 MHZ.
FREQ. STABILITY: +/- 2.5/2 PPM
SPURIOUS & HARMONICS: -70 DBC.
FM HUM AND NOISE: -45 DB WB, -40 DB NB.
AUDIO DISTORTION: 2.5% @ 1 KHZ.
EMISSIONS: 11K0F3E, 16K0F3E
8K10F1D, 20K0F1D.

RECEIVER:

R.F. SENSITIVITY (12 DB. SINAD): 0.30 UV. (25 KHZ. CH.) SELECTIVITY: -85/-80 DB WB, -70/-70 DB NB. INTERMODULATION: -85 DB. SPURIOUS & IMAGE REJECTION: -90 DB. AUDIO POWER @ DISTORTION: 7.5 W. @ 3% FREQ. SPREAD, FULL SPECS.: 24/20 MHZ

******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS******

I. AVAILABLE MANUFACTURER OPTIONS: ILLUMINATED DTMF MICROPHONE, FACTORY PROGRAMMING

II. AVAILABLE VENDOR OPTIONS:

1/4 WAVE AND GAIN MOBILE ANTENNAS WITH 3/4" HOLE MOUNTING AND SILVER PLATED CONNECTORS, WEATHER PROOF P.A. SPEAKER

CATEGORY 108- VHF HIGH BAND/UHF, 110W P25 DIGITAL MOBILE RADIO W/ ENCRYPTION

THIS CATEGORY IS FOR VHF HIGH-BAND AND UHF, 512 CHANNEL, REAR-MOUNT, P25 DIGITAL, DES-OFB ENCRYPTED MOBILE RADIOS FULLY COMPATIBLE WITH TENNESSEE BUREAU OF INVESTIGATION'S MOTOROLA XTL 5000 SYSTEM.

ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW LISTED FEATURES AS STANDARD FREQUENCY BAND: 136 - 174/380 - 470 MHZ. CHANNELS: 512 CHANNEL SPACING: 12.5 AND 30 KHZ. (VHF), 12.5 AND 25 KHZ. (UHF) MODE OF OPERATION: SIMPLEX AND HALF DUPLEX EMISSION: ANALOG AND P25 DIGITAL, IMBE VOCODING R.F. IMPEDANCE, RECEIVER & TRANSMITTER: 50 OHMS TEMPERATURE RANGE: -30 TO +60 DEG. C.

TEMPERATURE RANGE: -30 TO +60 DEG. C. ALPHA-NUMERIC, ILLUMINATED, REMOTE MOUNT HAND-HELD CONTROL HEAD, 14 CHARACTER MINIMUM WITH INTEGRAL MICROPHONE R.F. SYNTHESIZED P.C. PROGRAMMABLE WITH UNIT CLONING VIA P.C. P.C. ASSIGNABLE BUTTON FUNCTIONS CTCSS AND DCSS CAPABILITY, ALL EIA TONE AND DCSS CODES OEM MULTI-KEY DES-OFB ENCRYPTION HOME BUTTON TO RETURN TO SOFTWARE DEFINED DEFAULT CHANNEL OPERATOR PROGRAMMABLE PRIORITY CTCSS/DCSS SCAN SQUELCH TAIL ELIMINATION REPEATER TALK AROUND (DIRECT) BUTTON BUSY CHANNEL TRANSMIT INHIBIT WITH BUSY CHANNEL INDICATOR TRANSMITTER VSWR PROTECTION TRANSMIT TIME LIMITER, ADJUSTABLE STANDARD EXTERNAL MOBILE SPEAKER (I.E. NOT WITHIN RADIO ENCLOSURE) AUDIO SOURCE FOR WEATHER PROOF P.A. SPEAKER KEYLOCK RADIO MOUNT COMPLETE MOUNTING HARDWARE, CONTROL CABLING, AND WIRING HARNESSES MEETS MIL810 SPECIFICATIONS FOR SHOCK AND VIBRATION

TRANSMITTER:

R.F. OUTPUT POWER: 110W
FREQ. SPREAD: FULL BANDSPLIT.
FREQ. STABILITY: +/- 2.0 PPM.
SPURIOUS & HARMONICS: -85 DBC.
FM HUM AND NOISE: -50/-45 DB WB, -40/-40 DB NB.
AUDIO DISTORTION: 2% a 1 KHZ
EMISSIONS: 11K0F3E, 16K0F3E
8K10F1D, 20K0F1D

RECEIVER:

R.F. SENSITIVITY (12 DB. SINAD): 0.30 UV. SELECTIVITY: -85/-82 DB WB, -70/-75 DB NB. INTERMODULATION: -85 DB. SPURIOUS & IMAGE REJECTION: -90 DB. AUDIO POWER @ DISTORTION: 7.5 W @ 3% FREQ. SPREAD: FULL BANDSPLIT.

******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS* *******

I. AVAILABLE MANUFACTURER OPTIONS:

ALPHA-NUMERIC, ILLUMINATED, REMOTE MOUNT CONTROL HEAD, 14 CHARACTER MINIMUM WITH ILLUMINATED DTMF MICROPHONE, FACTORY PROGRAMMING

II. AVAILABLE VENDOR OPTIONS:

1/4 WAVE AND GAIN MOBILE ANTENNAS WITH 3/4" HOLE MOUNTING AND SILVER PLATED CONNECTORS,

SILVER PLATED CONNECTORS, WEATHER PROOF P.A. SPEAKER,

CATEGORY 109- 800 MHZ. CONVENTIONAL ANALOG MOBILE RADIO

THIS CATEGORY IS FOR 800 MHZ. CONVENTIONAL ANALOG 48 CHANNEL, 30 WATT, FRONT-MOUNT, ANALOG, MOBILE RADIOS.

ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW LISTED FEATURES AS STANDARD:

FREQUENCY BAND: 806-870 MHZ

CHANNELS: 48

CHANNEL SPACING: 12.5 (NPSPAC) AND 25 KHZ

MODE OF OPERATION: SIMPLEX AND HALF DUPLEX

EMISSION: ANALOG

R.F. IMPEDANCE, RECIEVER & TRANSMITTER: 50 OHMS

TEMPERATURE RANGE: -30 TO +60 DEG C.

8 CHARACTER MINIMUM. ALPHA-NUMERIC DISPLAY, BACKLIT

R.F. SYNTHESIZED

P.C. PROGRAMMABLE WITH UNIT CLONING VIA P.C.

CTCSS AND DCSS CAPABILITY

RECEIVER CHANNEL MONITOR BUTTON

OPERATOR PROGRAMMABLE PRIORITY CTCSS/DCSS SCAN

SQUELCH TAIL ELIMINATION

REPEATER TALK AROUND (DIRECT) BUTTON

BUSY CHANNEL TRANSMIT INHIBIT WITH BUSY CHANNEL INDICATOR

TRANSMITTER VSWR PROTECTION

TRANSMIT TIME LIMITER, ADJUSTABLE

STANDARD MOBILE MICROPHONE

INTERNAL SPEAKER

AUDIO SOURCE FOR WEATHER PROOF P.A. SPEAKER

12 VDC, NEGATIVE GROUND, PRIMARY POWER

COMPLETE MOUNTING HARDWARE AND WIRING HARNESSES

MEETS MIL810 SPECIFICATIONS FOR SHOCK AND VIBRATION

TRANSMITTER:

R.F. OUTPUT POWER: 30W.

FREQ. SPREAD, FULL SPECS.: 806 - 825; 851 - 869 MHZ.

FREQ. STABILITY: +/- 1.5 PPM

CONDUCTED SPURIOUS EMISSIONS: -70 DBC.

FM HUM AND NOISE @ 25.0 KHZ: -40 DB.

AUDIO DISTORTION: 3% @ 1 KHZ.

EMISSIONS: 11K0F3E, 16K0F3E

RECEIVER:

R.F. SENSITIVITY (12 DB. SINAD): 0.3 UV. SELECTIVITY @ 25.0 KHZ.: -75 DB.

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SELECTIVITY @ 25.0 KHZ.: -75 DB.
INTERMODULATION @ 25.0 KHZ.: -80 DB.
SPURIOUS & IMAGE REJECTION: -80 DB.
AUDIO POWER @ DISTORTION: 3 W. @ 5%
FREQ. SPREAD, FULL SPECS.: 851 - 869 MHZ.

*******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS*******

I. AVAILABLE MANUFACTURER OPTIONS:

ILLUMINATED DTMF MICROPHONE, EXTERNAL SPEAKER, A. C. POWER SUPPLY, CONTROL STATION DESK TOP MICROPHONE, FACTORY PROGRAMMING

II. AVAILABLE VENDOR OPTIONS:

GAIN MOBILE ANTENNAS WITH 3/4" HOLE OR ON-GLASS MOUNTING, WEATHER PROOF P.A. SPEAKER, RG-8/U COAXIAL CABLE PL-259 CONNECTOR FOR RG-8/U CABLE N-MALE CONNECTOR FOR RG-8/U CABLE

CATEGORY 110 - 800 MHZ TRUNKED ANALOG / DIGITAL MOBILE RADIO

THIS CATEGORY IS FOR TRUNKED, 800 MHZ., FRONT AND/OR REAR MOUNT, MOBILE RADIOS, FULLY COMPATIBLE WITH P25 CAI IMBE TRUNKING PROTOCOLS A USED IN THE EXISTING TEMA / DEPT OF SAFETY TRUNKED RADIO MOTORALA ASTRO & STL MOBILES SYSTEMS.
ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW LISTED FEATURES AS STANDARD:

FREQUENCY BAND: 764 - 869 MHZ. CHANNELS IN CONVENTIONAL OPERATION: 16 NPSPAC CHANNEL CAPABLE CHANNEL SPACING: 12.5 (NPSPAC) AND 25 KHZ. TRANSCEIVER OPERATION: SIMPLEX AND HALF DUPLEX EMISSION: ANALOG OR DIGITAL R.F. IMPEDANCE, RECEIVER & TRANSMITTER: 50 OHMS TEMPERATURE RANGE: -30 TO +60 DEG. C. BACKLIT LCD ALPHA-NUMERIC DISPLAY R.F. SYNTHESIZED P.C. PROGRAMMABLE EMERGENCY CALL/ALARM FEATURE TRANSMITTER VSWR PROTECTION TRANSMIT TIME LIMITER, ADJUSTABLE STANDARD MOBILE MICROPHONE INTERNAL OR EXTERNAL SPEAKER

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INTERNAL OR EXTERNAL SPEAKER
AUDIO SOURCE FOR WEATHER PROOF P.A. SPEAKER
12 VDC, NEGATIVE GROUND, PRIMARY POWER
COMPLETE MOUNTING HARDWARE AND WIRING HARNESSES
PUSH TO TALK UNIT IDENTIFICATION
EMERGENCY RESPONSE CAPABILITY

TRANSMITTER:

R.F. OUTPUT POWER: 35W.
FREQ. SPREAD, FULL SPECS.:
806-825 MHZ / 851-869 MHZ & 764-776 MHZ / 794-806 MHZ
FREQ. STABILITY: +/- 1.5 PPM
EMISSIONS CONDUCTED OR RADIATED: -70/-85 DBC.
FM HUM AND NOISE: -40 DB WB, -34 DB NB.
AUDIO DISTORTION: 2% @ 1 KHZ.
EMISSIONS: 16K0F3E

RECEIVER:

R.F. SENSITIVITY (12 DB. SINAD): 0.25 UV. SELECTIVITY: -80 DB WB, -65 DB NB. INTERMODULATION: -80 DB. SPURIOUS & IMAGE REJECTION: -80 DB. AUDIO POWER @ DISTORTION: 3% @ 7.5 W. FREQ. SPREAD, FULL SPECS.: 851-869 MHZ & 764-776 MHZ

*******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS*******

I. AVAILABLE MANUFACTURER OPTIONS:

ILLUMINATED DTMF MICROPHONE, EXTERNAL SPEAKER, A. C. POWER SUPPLY, CONTROL STATION DESK TOP MICROPHONE, FACTORY PROGRAMMING

II. AVAILABLE VENDOR OPTIONS:

MOBILE ANTENNAS WITH 3/4" HOLE OR ON-GLASS MOUNTING VEHICULAR REPEATERS SIREN & SIREN SPEAKER WEATHER PROOF P.A. SPEAKER

CATEGORY 111 - VHF HIGH BAND/UHF/700/800 MHZ SYNTHESIZED VEHICLE REPEATER

THIS CATEGORY IS FOR VHF/UHF/700/800 MHZ, 2/2/0.6/0.6 WATT, SINGLE CHANNEL, ANALOG, SYNTHESIZED VEHICLE REPEATER TO BE COMPATIABLE WITH EXISTING TOOT MOBILE RADIO EQUIPMENT

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EXISTING TDOT MOBILE RADIO EQUIPMENT PYRAMID SVR-200 RADIO SYSTEMS.

ALL VEHICLE REPEATERS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW LISTED FEATURES AS STANDARD:

FREQUENCY BAND: 150 - 174 / 450 - 470 / 764 - 776 & 794 - 806 / 806 - 824 & 851 - 869 MHZ.

CHANNELS: 1

MODE OF OPERATION: SIMPLEX

EMISSION MODE: ANALOG

TEMPERATURE RANGE: - 30 TO + 60 DEG. C

R.F. SYNTHESIZED

PROGRAMMING USING PERSONAL COMPUTER

NARROWBAND AND WIDEBAND OPERATION

PROGRAMMABLE CHANNEL

IN-BAND REPEAT CAPABLE

"FIRST MAN OUT" WITH PRIORITY SAMPLING CAPABLE

COMPATIBLE WITH THE KENWOOD TK 690/790/890 RADIOS

TRANSMITTER:

R.F. OUTPUT POWER: 0.25 - 2 / 0.25 - 2 / 0.1 - 0.6 / 0.1 - 0.6 W.

FREQ. STABILITY: +/- 1.5 PPM

SUPRIOUS EMISSIONS: - 50 / -52 / -45 / -45DBC.

FM HUM AND NOISE: -40DB

AUDIO DISTORTION: <3% @ 60% DEVIATION

MODULATION TYPES: 11K0F3E, 16K0F3E / 16K0F3E / 11K0F3E, 16K0F3E

RECEIVER:

R.F. SENSITIVITY: 0.35 UV

SQUELCH SENSITIVITY: 0.2 UV TO 2.0 UV ADJUSTABLE

SELECTIVITY: 60DB / 60DB/ 50DB/ 50DB

INTERMODULATION: 60DB

SPURIOUS & IMAGE REJECTION: 60DB

FREQUENCY STABILITY: +/- 1.5 PPM

******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS*****

I. AVAILABLE MANUFACTURER OPTIONS:

FACTORY PROGRAMMING
IN BAND FILTERS (VHF & UHF)
FACTORY SUPPLIED SPECIFIC MOBILE RADIO MODEL TO VEHICLE REPEATER
INTERFACE CABLES

II. AVAILABLE VENDOR OPTIONS:

RG-8/U COAXIAL CABLE
PL-259 CONNECTOR FOR RG-8/U CABLE
N-MALE CONNECTOR FOR RG-8/U CABLE

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CATEGORY 112 VHF HIGH / UHF /700/800 MHZ VEHICULAR REPEATER

THIS CATEGORY IS FOR VHF HIGH BAND, UHF, 700/800 MHZ VEHICULAR REPEATER THESE VEHICULAR REPEATERS ARE TO BE COMPATIBLE WITH EXISTING DEPARTMENT OF CORRECTION RADIOS. ALSO TO BE COMPATIABLE WITH MOBEXCOM P25 VEHICULAR REPEATER.

ALL REPEATERS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW FEATURES AS STANDARD.

FREQUENCY BAND:	VHF	UHF	700/800 MHZ
	136-174 MHZ	403-470 MHZ	764-767 MHZ
		450-470 MHZ	773-776 MHZ
		470-512 MHZ	794-797 MHZ
			803-806 MHZ
			806-825 MHZ
			851-869MHZ

CHANNEL: 32

CHANNEL SPACING: 12.5 OR 25 KHZ TEMPERATURE RANGE: -30 TO +60 DEG. C.

R.F. SYNTHESIZED P.C. PROGRAMMABLE

DUTY CYCLE: CONTINUOUS

CTCS/CDSS (PL/DPL) OPERATION: PROGRAMMABLE PER CHANNEL POWER SUPPLY: 13.8 VDC +/- 20 %NEGATIVE GROUND

DC CURRENT DRAIN:

REPEATER OFF: 0.01A MAX REPEATER STAND BY: 0.8A MAX

REPEATER IN RECEIVE: 1.7A MAX a7.5W AUDIO a 13.8 VDC

REPEATER IN TRANSMIT: 4.5 A MAX & 10W RF MAXIMUM OUTPUT AT TX PORT PROTECTION AGAINST LIQUIDS: IP6 (JET WATER PROOF)

TRANSMITTER:

RF OUTPUT POWER AT TX PORT: 10 WATTS PROGRAMMABLE PER CHANNEL FROM CARRIER CONTROL TIMER OPTION: 15 SEC TO 15 MINUTES OR AS DESIRED

FREQUENCY STABILITY: +/- 1.5PPM

FM HUM AND NOISES: 12.5 KHZ 37 DB

25.0 KHZ 43 DB

AUDIO SENSITIVITY: 80 MV RMS

AUDIO SENSITIVITY (MOB. DET. AUDIO): 600 MV RMS

AUDIO DISTORTION: <2%

RECEIVER:

SENSITIVITY, MAX: -118 DB @12 DB SINAD FREQUENCY STABILITY:

+/- 1.5 PPM

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FREQUENCY STABILITY: +/- 1.5 PPM

INTERMODULATION: 70 DB

SPURIOUS RESPONSE: 70 DB

AUDIO DISTORTION:

3% VHF

SELECTIVITY:

_____ 700/800MHZ _____

12.5 KHZ

70 DB

65 DB

UHF

65 DB

25 KHZ

80 DB

77 DB

77 DB

RATED DEVIATION:

12.5 KHZ:

+/- 2.5KHZ

25 KHZ:

+/- 5KHZ

FM HUM AND NOISE:

12.5 KHZ

37DB

25 KHZ

43 DB

AUDIO OUTPUT (REPEATER DETECT AUDIO): 600 MV RMS NOMINAL, FLAT RESPONSE

AUDIO RESPONSE: +1, -3DB/OCTAVE DE-EMPHASIS CHARACTERISTIC OVER 300

HZ TO3KHZ

AUDIO DISTORTION: <3%

******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS*****

I. AVAILABLE MANUFACTURER OPTIONS:

FACTORY PROGRAMMING

IN BAND FILTERS (VHF & UHF)

FACTORY SUPPLIED SPECIFIC MOBILE RADIO MODEL TO VEHICLE REPEATER INTERFACE CABLES

II. AVAILABLE VENDOR OPTIONS:

RG-8/U COAXIAL CABLE

PL-259 CONNECTOR FOR RG-8/U CABLE

N-MALE CONNECTOR FOR RG-8/U CABLE

CATEGORY: PORTABLE RADIO'S

CATEGORY 200 - VHF LOW / HIGH BAND/UHF BAND 128 CHANNEL 6/5/4W. INTRINSICLY SAFE PORTABLE RADIO WITH MAN DOWN

THIS CATEGORY IS FOR LOW/HIGH VHF/UHF, 6/5/4 WATT, 128 CHANNEL, ANALOG, PORTABLE THAT IS FACTORY MUTUAL APPROVED FOR HAZARD ENVIRONMENTS AND MAN DOWN EMERGENCY BUTTON

ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW LISTED FEATURES AS STANDARD AND COMPATATIBLE WITH HT750/HT1250 PORTABLE RADIOS.

FREQUENCY BAND: 37-50 / 136 - 174/440 - 470 MHZ.

CHANNELS: 128

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CHANNELS: 128

CHANNEL SPACING: 20/25 KHZ LB /12.5 / 20 AND 25 KHZ V/U.

MODE OF OPERATION: SIMPLEX AND HALF DUPLEX

EMISSION: ANALOG

TEMPERATURE RANGE: -30 TO +60 DEG. C.

R.F. SYNTHESIZED

P.C. PROGRAMMABLE WITH P.C. AND DIRECT UNIT-TO-UNIT CLONING

CTCSS AND DCSS CAPABILITY, ALL EIA TONES AND DIGITAL CODES

OPERATOR PROGRAMMABLE PRIORITY CTCSS AND DCSS SCAN

RECEIVER CHANNEL MONITOR BUTTON

TRANSMIT TALK-AROUND (SIMPLEX) BUTTON

DTMF ENCODING PAD

SQUELCH TAIL ELIMINATION

HIGH/LOW POWER SWITCH OR BUTTON

PER-CHANNEL POWER PROGRAMMING

TRANSMITTER VSWR PROTECTION

TRANSMIT TIME LIMITER, ADJUSTABLE

PUSH TO TALK IDENTIFICATION ENCODE AND DECODE, MDC 1200 SIGNALING FORMAT EMERGENCY RESPONSE BUTTON, MAN DOWN, MDC1200 SIGNALING FORMAT INTRINSCIALLY SAFE FM APPROVALS FOR USE IN CLASSES I, II, III, DIVISION 1, GROUP C,D,E,F AND G AS WELL AS NON-INCENDIVE USE IN

CLASS I, DIVISION 2, GROUPS A,B,C AND D

14 CHARACTER ALPHANUMERIC DISPLAY

BATTERY LIFE INDICATION GUAGE

TRANSMITTER:

R.F. OUTPUT POWER: 6/5/4W.

FREQ. SPREAD, FULL SPECS.: 12/24/20

FREQ. STABILITY: +/- 10PPM LB / 5 PPM V/U

SPURIOUS & HARMONICS: -36 DBM BELOW 1 GHZ.

FM HUM AND NOISE: -40 DB.

AUDIO DISTORTION: 3% a 1 KHZ.

EMISSIONS: 11K0F3E EXCEPT LB, 16K0F3E

RECEIVER:

R.F. SENSITIVITY (12 DB. SINAD): 0.30UV LB / 0.25 UV V/U.

SELECTIVITY NB: -60 DB.

WB: -70 DB.

INTERMODULATION: -70 DB.

SPURIOUS REJECTION: -57 DBM.

AUDIO POWER a DISTORTION: 0.5 W. a 3%

FREQ. SPREAD, FULL SPECS.: 12/24/20 MHZ.

*******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS******

I. AVAILABLE MANUFACTURER OPTIONS:

FM APPROVED INTRINSCIALLY SAFE BATTERIES, MULTI UNIT AND DESK-TOP RAPID CHARGER,

SPEAKER/MICROPHONE,

LEATHER SWIVEL CARRYING CASE WITH 3- INCH BELT LOOP.

BONE CONDUCTION HEADSETS

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BONE CONDUCTION HEADSETS
RADIO CHANNELS PROGRAMMABLE BY ZONES
MDC1200 SIGNALING ENCODE AND DECODE

II. AVAILABLE VENDOR OPTIONS

1/4 WAVELENGTH MAGNETIC-MOUNT MOBILE ANTENNA RG-58/U COAXIAL CABLE PL-259 CONNECTOR WITH REDUCER FOR RG-58/U CABLE N-MALE CONNECTOR FOR RG-58/U CABLE BNC-MALE CONNECTOR FOR RG-58/U CABLE

CATEGORY 201 - VHF HIGH BAND 512 CHANNEL 5W. DIGITAL P25 PORTABLE RADIO

THIS CATEGORY IS FOR VHF, 5 WATT, 512 CHANNEL, DIGITAL P25 PORTABLE

ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW LISTED FEATURES AS STANDARD:

FREQUENCY BAND: 136 - 174 MHZ. CHANNELS: 512 ZONES OR CHANNEL GROUPS: 50 SCAN LISTS: 16 WITH 31 CHANNELS PER LIST CHANNEL SPACING: 12.5/15/20/25/30 KHZ. ANALOG - 12.5 KHZ. DIGITAL MODE OF OPERATION: SIMPLEX AND HALF DUPLEX EMISSION: ANALOG AND P25 DIGITAL, IMBE VOCODING TEMPERATURE RANGE: -30 TO +60 DEG. C. R.F. SYNTHESIZED P.C. PROGRAMMABLE CTCSS AND DCSS CAPABILITY SQUELCH TAIL ELIMINATION OPERATOR PROGRAMMABLE PRIORITY SCAN RECEIVER CHANNEL MONITOR BUTTON TRANSMIT TALK-AROUND (SIMPLEX) BUTTON ILLUMINATED DTMF ENCODING PAD SELECTIVE CALL DECODING

TRANSMITTER:

AUTOMATIC ANI ENCODING

R.F. OUTPUT POWER: 5W.
FREQ. SPREAD, FULL SPECS.: 38 MHZ.
FREQ. STABILITY: +/- 2 PPM
SPURIOUS & HARMONICS: -70 DB.

HIGH//LOW POWER SWITCH OR BUTTON PER-CHANNEL POWER PROGRAMMING

TRANSMITTER VSWR PROTECTION

BACK LIT LCD ALPHA-NUMERIC DISPLAY

TRANSMIT TIME LIMITER, ADJUSTABLE

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SPURIOUS & HARMONICS: -70 DB. FM HUM AND NOISE: -45 DB. AUDIO DISTORTION: 2% @ 1 KHZ. EMISSIONS: 11K0F3E, 16K0F3E 8K10F1E, 8K10F1D.

RECEIVER:

R.F. SENSITIVITY (12 DB. SINAD): 0.25 UV. SELECTIVITY DIGITAL: -60 DB.

> ANALOG @ 12.5 KHZ.: -67 DB. ANALOG @ 25/30 KHZ.: -78 DB.

INTERMODULATION: -75 DB SPURIOUS & IMAGE REJECTION: -80 DB. AUDIO POWER a DISTORTION: 0.5 W. a 2% FREQ. SPREAD, FULL SPECS.: 38 MHZ.

******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS******

I. AVAILABLE MANUFACTURER OPTIONS:

FACTORY PROGRAMMING, STANDARD & HIGH CAPACITY BATTERIES, DESK-TOP RAPID CHARGER, SPEAKER/MICROPHONE

AVAILABLE VENDOR OPTIONS:

1/4 WAVELENGTH MAGNETIC-MOUNT MOBILE ANTENNA RG-58/U COAXIAL CABLE PL-259 CONNECTOR WITH REDUCER FOR RG-58/U CABLE N-MALE CONNECTOR FOR RG-58/U CABLE BNC-MALE CONNECTOR FOR RG-58/U CABLE

CATEGORY 202- VHF HIGH BAND/UHF 16 CHANNEL 5/4W. PORTABLE RADIO

THIS CATEGORY IS FOR VHF/UHF, 5/4 WATT, 16 CHANNEL, ANALOG, PORTABLE RADIOS

ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW LISTED FEATURES AS STANDARD:

FREQUENCY BAND: 150 - 174/450 - 470 MHZ.

CHANNELS: 16

CHANNEL SPACING: 12.5 AND 30 KHZ./ 12.5 AND 25 KHZ.

MODE OF OPERATION: SIMPLEX AND HALF DUPLEX

EMISSION: ANALOG

TEMPERATURE RANGE: -30 TO +60 DEG. C.

R.F. SYNTHESIZED

P.C. PROGRAMMABLE WITH P.C. AND DIRECT UNIT-TO-UNIT CLONING

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P.C. PROGRAMMABLE WITH P.C. AND DIRECT UNIT-TO-UNIT CLONING CTCSS AND DCSS CAPABILITY, ALL EIA TONES AND DIGITAL CODES OPERATOR PROGRAMMABLE PRIORITY CTCSS AND DCSS SCAN RECEIVER CHANNEL MONITOR BUTTON TRANSMIT TALK-AROUND (SIMPLEX) BUTTON SQUELCH TAIL ELIMINATION HIGH/LOW POWER SWITCH OR BUTTON PER-CHANNEL POWER PROGRAMMING TRANSMITTER VSWR PROTECTION TRANSMIT TIME LIMITER, ADJUSTABLE MEETS MIL810 SPECIFICATIONS FOR SHOCK, VIBRATION, DUST, AND RAIN

TRANSMITTER:

R.F. OUTPUT POWER: 5/4W.
FREQ. SPREAD, FULL SPECS.: 24/20
FREQ. STABILITY: +/- 2.5 PPM
SPURIOUS & HARMONICS: -66 DB.
FM HUM AND NOISE: -45 DB WB, -40 DB NB.
AUDIO DISTORTION: 5% @ 1 KHZ.
EMISSIONS: 11K0F3E, 16K0F3E

RECEIVER:

R.F. SENSITIVITY (12 DB. SINAD): 0.28 UV. SELECTIVITY: -70 DB WB, -60 DB NB. INTERMODULATION: -65 DB WB, -60 DB NB. SPURIOUS & IMAGE REJECTION: -65 DB. AUDIO POWER @ DISTORTION: 0.5 W. @ 10% FREQ. SPREAD, FULL SPECS.: 24/20 MHZ.

*******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS*******

I. AVAILABLE MANUFACTURER OPTIONS:

FACTORY PROGRAMMING, STANDARD & HIGH CAPACITY BATTERIES, DESK-TOP RAPID CHARGER, SPEAKER/MICROPHONE,

II. AVAILABLE VENDOR OPTIONS:

1/4 WAVELENGTH MAGNETIC-MOUNT MOBILE ANTENNA
RG-58/U COAXIAL CABLE
PL-259 CONNECTOR WITH REDUCER FOR RG-58/U CABLE
N-MALE CONNECTOR FOR RG-58/U CABLE
BNC-MALE CONNECTOR FOR RG-58/U CABLE
HEAVY DUTY DUAL MUFF HEADSET WITH EAR CUP PTT, COIL CORD

CATEGORY 203- VHF HIGH BAND/UHF 128 CHANNEL 5/4W. PORTABLE RADIO

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CATEGORY 203- VHF HIGH BAND/UHF 128 CHANNEL 5/4W. PORTABLE RADIO

THIS CATEGORY IS FOR VHF/UHF, 5/4 WATT, 128 CHANNEL, ANALOG, PORTABLE RADIOS

ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW LISTED FEATURES AS STANDARD:

FREQUENCY BAND: 150 - 174/450 - 470 MHZ.

CHANNELS: 128

CHANNEL SPACING: 12.5 AND 30 KHZ./ 12.5 AND 25 KHZ.

MODE OF OPERATION: SIMPLEX AND HALF DUPLEX

EMISSION: ANALOG

TEMPERATURE RANGE: -30 TO +60 DEG. C.

R.F. SYNTHESIZED

P.C. PROGRAMMABLE WITH P.C. AND DIRECT UNIT-TO-UNIT CLONING

CTCSS AND DCSS CAPABILITY, ALL EIA TONES AND DIGITAL CODES

SQUELCH TAIL ELIMINATION

OPERATOR PROGRAMMABLE PRIORITY CTCSS AND DCSS SCAN

RECEIVER CHANNEL MONITOR BUTTON

TRANSMIT TALK-AROUND (SIMPLEX) BUTTON

DTMF ENCODING PAD

HIGH/LOW POWER SWITCH OR BUTTON

PER-CHANNEL POWER PROGRAMMING

BACK LIT LCD ALPHA-NUMERIC DISPLAY

TRANSMITTER VSWR PROTECTION

TRANSMIT TIME LIMITER, ADJUSTABLE

DIE-CAST METAL CHASSIS

MEETS MIL810 SPECIFICATIONS FOR SHOCK, VIBRATION, DUST AND RAIN

TRANSMITTER:

R.F. OUTPUT POWER: 5/4W.

FREQ. SPREAD, FULL SPECS.: 24/20.

FREQ. STABILITY: +/- 2.5 PPM

SPURIOUS & HARMONICS: -70 DB.

FM HUM AND NOISE: -45 DB WB, -40 DB NB.

AUDIO DISTORTION: 5% @ 1 KHZ.

EMISSIONS: 11K0F3E, 16K0F3E

RECEIVER:

R.F. SENSITIVITY (12 DB. SINAD): 0.28 UV.

SELECTIVITY: -70 DB WB, -60 DB NB.

INTERMODULATION: -65 DB WB, -60 DB NB.

SPURIOUS & IMAGE REJECTION: -65 DB.

AUDIO POWER @ DISTORTION: 0.5 W. @ 5%

FREQ. SPREAD, FULL SPECS.: 24/20 MHZ.

*******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS********

I. AVAILABLE MANUFACTURER OPTIONS:

FACTORY PROGRAMMING,

FACTORY PROGRAMMING, STANDARD & HIGH CAPACITY BATTERIES, DESK TOP RAPID CHARGER, SPEAKER/MICROPHONE,

II. AVAILABLE VENDOR OPTIONS

1/4 WAVELENGTH MAGNETIC-MOUNT MOBILE ANTENNA RG-58/U COAXIAL CABLE PL-259 CONNECTOR WITH REDUCER FOR RG-58/U CABLE N-MALE CONNECTOR FOR RG-58/U CABLE BNC-MALE CONNECTOR FOR RG-58/U CABLE HEAVY DUTY DUAL MUFF HEADSET WITH EAR CUP PTT, COIL CORD

CATEGORY 204 VHF HIGH / UHF PORTABLE RADIO WITH MAN DOWN

THIS CATEGORY IS FOR VHF HIGH BAND AND UHF PORTABLE RADIOS WITH A MANUAL MAN DOWN BUTTON. THESE PORTABLE RADIOS ARE TO BE COMPATIBLE WITH EXISTING DEPARTMENT OF CORRECTION RADIOS HT750/HT1250 PORTABLE RADIO SYSTEMS.

ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW FEATURES AS STANDARD.

FREQUENCY BAND:

136-174 MHZ

403-470 MHZ

450-512 MHZ

CHANNELS:

MINIMUM OF 16

CHANNEL SPACING: 12.5 AND 25 KHZ

TEMPERATURE RANGE: -30 TO +60 DEG. C.

R.F. SYNTHESIZED

P.C. PROGRAMMABLE

MANUAL EMERGENCY FUNCTION (NO MERCURY OR OTHER AUTOMATIC ACTIVATION)

SENSITIVITY (12 DB SINAD) EIA: .25 UV

INTERMODULATION:

70 DB

SPURIOUS REJECTION:

70 DB

AUDIO RESPONSE (300 - 3000 HZ) : +1 TO -3DB

TRANSMITTER:

RF OUTPUT POWER: 5.0 WATTS VHF HIGH BAND

4.0 WATTS UHF BAND

FREQUENCY SPREAD: 136-170 MHZ VHF HIGH BAND

403-470 MHZ

450-512 MHZ

FREQUENCY STABILITY: +/- 5 PPM @ 25 KHZ

+/- 2.5 PPM @ 12.5 KHZ

AUDIO DISTORTION: 3%

RECEIVER:

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RECEIVER:

SENSITIVITY:

12 DB SINAD EIA .25 UV

20 DB SINAD ETS .50UV

INTERMODULATION:

70 DB

SPURIOUS REJECTION: 70 DB

AUDIO DISTORTION:

3%

I. AVAILABLE MANUFACTURER OPTIONS:

FACTORY PROGRAMMING STANDARD AND HIGH CAPACITY NICKEL METAL HYDRIDE BATTERIES DESK TOP CHARGERS SPEAKER/MICROPHONES TEMPLE TRANSDUCER HEADSET PUBLIC SAFETY SHOULDER MICROPHONE BATTERY ANALYZER

II. AVAILABLE VENDOR OPTIONS

1/4 WAVELENGTH MAGNETIC-MOUNT MOBILE ANTENNA RG-58/U COAXIAL CABLE PL-259 CONNECTOR WITH REDUCER FOR RG-58/U CABLE N-MALE CONNECTOR FOR RG-58/U CABLE BNC-MALE CONNECTOR FOR RG-58/U CABLE

CATEGORY 205 - VHF HIGH BAND/UHF 160 CHANNEL 5/4 WATT PORTABLE RADIO

THIS CATEGORY IS FOR VHF/UHF, 5/4 WATT, 160 CHANNEL, ANALOG, PORTABLE RADIO WITH DYNAMIC SCAN GROUPING TO BE COMPATIBLE WITH THE EXISTING TDOT KENWOOD TK290RADIO SYSTEMS.

ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW LISTED FEATURES AS STANDARD:

FREQUENCY BAND: 136 - 174 / 450 - 490 MHZ.

CHANNELS: 160

CHANNEL SPACING: 12.5 AND 30 KHZ. / 12.5 AND 25 KHZ.

MODE OF OPERATION: SIMPLEX AND HALF DUPLEX

EMISSION MODE: ANALOG

TEMPERATURE RANGE: - 30 TO + 60 DEG. C

R.F. SYNTHESIZED

RADIO PROGRAMMING USING PERSONAL COMPUTER

DIRECT UNIT-TO-UNIT CLONING

CTCSS AND DCSS CAPABILITY

SQUELCH TAIL ELIMINATION

NARROWBAND AND WIDEBAND OPERATION PROGRAMMABLE ON A PER CHANNEL BASIS

PROGRAMMABLE CHANNEL SCAN WITH MIN. 30 DYNAMIC SCAN GROUPS, TALK-BACK SCAN, TWO PRIORITY CHANNELS, CHANNEL & GROUP ADD/DELETE, NUISANCE CHANNEL TEMPORARY DELETE

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CHANNEL TEMPORARY DELETE

OPERATOR SELECTABLE CTCSS/DCSS TONES/CODES (MINIMUM OF 16)

PROGRAMMABLE FUNCTION KEYS - MINIMUM OF 5

TOP MOUNTED, LIGHTED, ALPHANUMBERIC, 7 CHARACTER MIN., LCD CHANNEL DISPLAY, WITH OPERATOR ACTIVATED DISPLAY INVERT FEATURE AND PROGRAMMABLE MANUAL AND AUTOMATICALLY TIMED SHUTOFF AND DISABLE.

RECEIVER CHANNEL MONITOR BUTTON TRANSMIT TALK-AROUND (SIMPLEX) BUTTON MANUAL DTMF ENCODING WITH FRONT MOUNTED, INTEGRAL KEYPAD PROGRAMMABLE AUTOMATIC DTMF ANI UPON PTT PROGRAMMABLE AUTOMATIC DIGITAL ANI UPON PTT

SELECTIVE CALL DECODING WITH TWO-TONE AND DTMF FORMATS - DTMF SEL. CALL TO PROVIDE INDIVIDUAL AND GROUP CALLING AND OVER-THE-AIR RADIO DISABLE/ENABLE

PROGRAMMABLE KEY, SWITCH, OR BUTTON THAT WILL LOCK ALL OTHER BUTTONS AND DTMF ENCODE PAD.

HIGH/LOW TRANSMIT POWER VIA PROGRAMMABLE KEY, SWITCH, OR BUTTON PER-CHANNEL POWER PROGRAMMING TRANSMITTER VSWR PROTECTION TRANSMIT TIME LIMITER, PROGRAMMABLE

TRANSMITTER:

R.F. OUTPUT POWER: 5/4 W.

FREQ. SPREAD, FULL SPECS.: 38/40 MHZ

FREQ. STABILITY: +/- 2.5 PPM

SUPRIOUS & HARMONICS: - 70 DB.

FM HUM AND NOISE: - 40 DB. NB. / - 45 DB. WB.

AUDIO DISTORTION: LESS THAN 3%

MODULATION TYPES: 11K0F3E, 16K0F3E

RECEIVER:

R.F. SENSITIVITY (12 DB. SINAD): 0.25 UV.

SELECTIVITY @ 12.5 KHZ.: - 70 / -68 DB.

a 25.0 KHZ.: - 73 DB.

- 75 DB. a 30.0 KHZ.:

INTERMODULATION: a 12.5 KHZ.: - 68 / - 65 DB.

a 25.0 KHZ.: - 73 DB.

a 30.0 KHZ.: - 75 DB.

SPURIOUS & IMAGE REJECTION: - 75 / - 73 DB.

FREQUENCY STABILITY: +/- 2.5 PPM

AUDIO POWER a DISTORTION: 0.5 W. a 3%

FREQ. SPREAD, FULL SPECS.: 38/40 MHZ.

*******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS******

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I. AVAILABLE MANUFACTURER OPTIONS:

FACTORY PROGRAMMING,
STANDARD & HIGH CAPACITY BATTERIES (NICAD, NIMH)
DESK-TOP RAPID CHARGER,
MIL SPEC. NOISE CANCELING SPEAKER/MICROPHONE,
VEHICULAR CHARGER/PA UNIT.

II. AVAILABLE VENDOR OPTIONS

1/4 WAVELENGTH MAGNETIC-MOUNT MOBILE ANTENNA RG-58/U COAXIAL CABLE PL-259 CONNECTOR WITH REDUCER FOR RG-58/U CABLE N-MALE CONNECTOR FOR RG-58/U CABLE BNC-MALE CONNECTOR FOR RG-58/U CABLE

CATEGORY 206- VHF HIGH BAND/UHF 255 CHANNEL 5/4W. SUBMERSIBLE P25 DIGITAL PORTABLE RADIO

THIS CATEGORY IS FOR VHF/UHF, 5/4 WATT, 255 CHANNEL, P25 DIGITAL PORTABLE SUBMERSIBLE RADIO

ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW LISTED FEATURES AS STANDARD:

FREQUENCY BAND: 136 - 174/450 - 470 MHZ. CHANNELS: 255 ZONES: 32 CHANNEL SPACING: 12.5/25 KHZ., 15/30 KHZ. MODE OF OPERATION: SIMPLEX AND HALF DUPLEX EMISSION: ANALOG AND P25 DIGITAL, IMBE VOCODING TEMPERATURE RANGE: -30 TO +60 DEG. C. SUBMERSIBLE 1 METER DEPTH FOR 30 MIN. R.F. SYNTHESIZED P.C. PROGRAMMABLE CTCSS AND DCSS CAPABILITY SQUELCH TAIL ELIMINATION OPERATOR PROGRAMMABLE PRIORITY SCAN RECEIVER CHANNEL MONITOR BUTTON TRANSMIT TALK-AROUND (SIMPLEX) BUTTON ILLUMINATED DTMF ENCODING PAD SELECTIVE CALL DECODING AUTOMATIC ANI ENCODING HIGH//LOW POWER SWITCH OR BUTTON PER-CHANNEL POWER PROGRAMMING BACK LIT LCD ALPHA-NUMERIC DISPLAY TRANSMITTER VSWR PROTECTION

TRANSMIT TIME LIMITER, ADJUSTABLE

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TRANSMITTER:

R.F. OUTPUT POWER: 5/4W.
FREQ. SPREAD, FULL SPECS.: 38/20
FREQ. STABILITY: +/- 2 PPM
SPURIOUS & HARMONICS: -70/-70 DB.
FM HUM AND NOISE: -45/-40 DB.
AUDIO DISTORTION: 3% @ 1 KHZ.
EMISSIONS: 11K0F3E, 16K0F3E
11K0F1D, 16K0F3D

RECEIVER:

R.F. SENSITIVITY (12 DB. SINAD): 0.25/0.32 UV. SELECTIVITY @ 12.5 KHZ.: -70/-68 DB. @ 25/30 KHZ.: -75/-73 DB.

a DIGITAL: -60 DB

INTERMODULATION: -75/-75 DB SPURIOUS & IMAGE REJECTION: -80/-75 DB. AUDIO POWER @ DISTORTION: 0.5 W. @ 5% FREQ. SPREAD, FULL SPECS.: 38/20 MHZ.

******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS******

I. AVAILABLE MANUFACTURER OPTIONS:

FACTORY PROGRAMMING,
STANDARD & HIGH CAPACITY BATTERIES,
DESK-TOP RAPID CHARGER,
SPEAKER/MICROPHONE,
LEATHER SWIVEL CARRYING CASE WITH 3- INCH BELT LOOP

II. AVAILABLE VENDOR OPTIONS

1/4 WAVELENGTH MAGNETIC-MOUNT MOBILE ANTENNA RG-58/U COAXIAL CABLE PL-259 CONNECTOR WITH REDUCER FOR RG-58/U CABLE N-MALE CONNECTOR FOR RG-58/U CABLE BNC-MALE CONNECTOR FOR RG-58/U CABLE

CATEGORY 207- VHF HIGH BAND/UHF TRUNKED 512 CHANNEL 5W. PORTABLE RADIO

THIS CATEGORY IS FOR VHF/UHF, 5 WATT, 512 CHANNEL, ANALOG, PORTABLE RADIOS COMPATIBLE WITH TN HOMELAND SECURITY DISTRICT 7 PASSPORT SYSTEM

ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW LISTED FEATURES AS STANDARD:

FREQUENCY BAND: 136 - 174/400 - 470 MHZ.

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FREQUENCY BAND: 136 - 174/400 - 470 MHZ.

CHANNELS: 512

ZONES: 128

DUAL PRIORITY AND MULTI-ZONE SCAN WITH TALKBACK SCAN CHANNEL SPACING: 12.5/15/25/30 KHZ. / 12.5/25 KHZ

MODE OF OPERATION: SIMPLEX AND HALF DUPLEX

EMISSION: ANALOG

TEMPERATURE RANGE: -30 TO +60 DEG. C.

R.F. SYNTHESIZED

P.C. PROGRAMMABLE WITH P.C. AND DIRECT UNIT-TO-UNIT CLONING

CTCSS AND DCSS CAPABILITY

SQUELCH TAIL ELIMINATION

OPERATOR PROGRAMMABLE PRIORITY CTCSS AND DCSS SCAN

RECEIVER CHANNEL MONITOR BUTTON

TRANSMIT TALK-AROUND (SIMPLEX) BUTTON

ILLUMINATED DTMF ENCODING PAD

SELECTIVE CALL DECODING WITH TWO-TONE/SIGNALLING

AUTOMATIC ANI ENCODING USING DTMF FORMAT

HIGH/LOW POWER SWITCH OR BUTTON

PER-CHANNEL POWER PROGRAMMING

BACK LIT LCD ALPHA-NUMERIC DISPLAY, MINIMUM 12 CHARACTER DISPLAY

TRANSMITTER VSWR PROTECTION

TRANSMIT TIME LIMITER, ADJUSTABLE

TRANSMITTER:

R.F. OUTPUT POWER: 5/5W.

FREQ. SPREAD, FULL SPECS.: 38/70

FREQ. STABILITY: +/- 5 PPM

SPURIOUS & HARMONICS: -70/-70 DB.

FM HUM AND NOISE: -40 DB. NB. /-45 DB. WB.

AUDIO DISTORTION: 3% @ 1 KHZ.

EMISSIONS: 11K0F3E, 16K0F3E

RECEIVER:

R.F. SENSITIVITY (12 DB. SINAD): 0.28 UV.

SELECTIVITY @ 12.5 KHZ.: -65/-63 DB.

a 25/30 KHZ.: -70/-70 DB.

INTERMODULATION: @ 12.5 KHZ.: -70 DB.

a25/30 KHZ.: -70 DB.

SPURIOUS & IMAGE REJECTION: -73/-73 DB.

AUDIO POWER a DISTORTION: 0.5 W. a 3%

FREQ. SPREAD, FULL SPECS.: 38/70 MHZ.

******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS******

I. AVAILABLE MANUFACTURER OPTIONS:

FACTORY PROGRAMING, HIGH CAPACITY BATTERIES, DESK-TOP RAPID CHARGER, SPEAKER/MICROPHONE TERMS AND CONDITIONS

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II. AVAILABLE VENDOR OPTIONS:

1/4 WAVELENGTH MAGNETIC-MOUNT MOBILE ANTENNA RG-58/U COAXIAL CABLE PL-259 CONNECTOR WITH REDUCER FOR RG-58/U CABLE N-MALE CONNECTOR FOR RG-58/U CABLE BNC-MALE CONNECTOR FOR RG-58/U CABLE

CATEGORY 208- VHF HIGH BAND/UHF 255 CHANNEL 5/4W. P25 DIGITAL PORTABLE RADIO

THIS CATEGORY IS FOR VHF/UHF, 5/4 WATT, 255 CHANNEL, P25 DIGITAL, PORTABLE RADIOS

ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW LISTED FEATURES AS STANDARD:

FREQUENCY BAND: 150 - 174/450 - 470 MHZ.

CHANNELS: 255

CHANNEL SPACING: 12.5 AND 30 KHZ./ 12.5 AND 25 KHZ.

MODE OF OPERATION: SIMPLEX AND HALF DUPLEX

EMISSION: ANALOG AND P25 DIGITAL, IMBE VOCODING

TEMPERATURE RANGE: -30 TO +60 DEG. C.

R.F. SYNTHESIZED

P.C. PROGRAMMABLE

CTCSS AND DCSS CAPABILITY

SQUELCH TAIL ELIMINATION

OPERATOR PROGRAMMABLE PRIORITY SCAN

RECEIVER CHANNEL MONITOR BUTTON

TRANSMIT TALK-AROUND (SIMPLEX) BUTTON

HIGH/LOW POWER SWITCH OR BUTTON

PER-CHANNEL POWER PROGRAMMING

BACK LIT LCD ALPHA-NUMERIC DISPLAY, 11 CHARACTER MINIMUM

TRANSMITTER VSWR PROTECTION

TRANSMIT TIME LIMITER, ADJUSTABLE

MEETS MIL810 SPECIFICATIONS FOR SHOCK, VIBRATION, DUST, AND RAIN

TRANSMITTER:

R.F. OUTPUT POWER: 5/4W.
FREQ. SPREAD, FULL SPECS.: 24/20
FREQ. STABILITY: +/- 2.5/2 PPM.
SPURIOUS & HARMONICS: -65/-70 DB.
FM HUM AND NOISE: -45 DB WB/-40 DB NB.
AUDIO DISTORTION: 2% @ 1 KHZ.

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AUDIO DISTORTION: 2% 0 1 KHZ. EMISSIONS: 11K0F3E, 16K0F3E 8K10F1D, 20K0F1D

RECEIVER:

R.F. SENSITIVITY (12 DB. SINAD): 0.25/0.28 UV. SELECTIVITY: -75/-73 DB WB, -60/-60 DB NB. INTERMODULATION: -75/-73 DB. SPURIOUS & IMAGE REJECTION: -75/-73 DB. AUDIO POWER @ DISTORTION: 0.5 W. @ 3% FREQ. SPREAD, FULL SPECS.: 24/20 MHZ.

******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS******

I. AVAILABLE MANUFACTURER OPTIONS:

FACTORY PROGRAMMING,
STANDARD & HIGH CAPACITY BATTERIES,
DESK-TOP RAPID CHARGER,
SPEAKER/MICROPHONE,
LEATHER SWIVEL CARRYING CASE WITH 3- INCH BELT LOOP

II. AVAILABLE VENDOR OPTIONS

1/4 WAVELENGTH MAGNETIC-MOUNT MOBILE ANTENNA RG-58/U COAXIAL CABLE PL-259 CONNECTOR WITH REDUCER FOR RG-58/U CABLE N-MALE CONNECTOR FOR RG-58/U CABLE BNC-MALE CONNECTOR FOR RG-58/U CABLE

CATEGORY 209- VHF HIGH BAND/UHF 512 CHANNEL 6/5W. ENCRYPTED PORTABLE RADIO

THIS CATEGORY IS FOR VHF/UHF, 6/5 WATT, 512 CHANNEL, APCO-25 DIGITAL, DES-OFB ENCRYPTED PORTABLE RADIOS FULLY COMPATIBLE WITH TENNESSEE BUREAU OF INVESTIGATION'S MOTOROLA XTS 5000 SYSTEM.

ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW LISTED FEATURES AS STANDARD:

FREQUENCY BAND: 136 - 174/380 - 470 MHZ.
CHANNELS: 512
CHANNEL SPACING: 12.5 AND 30 KHZ./ 12.5 AND 25 KHZ.
MODE OF OPERATION: SIMPLEX AND HALF DUPLEX
EMISSION: ANALOG AND APCO 25 DIGITAL, IMBE VOCODING
TEMPERATURE RANGE: -30 TO +60 DEG. C.
R.F. SYNTHESIZED
P.C. PROGRAMMABLE WITH P.C.
CTCSS AND DCSS CAPABILITY. ALL FIA TONES AND DIGITAL

CTCSS AND DCSS CAPABILITY, ALL EIA TONES AND DIGITAL CODES

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CTCSS AND DCSS CAPABILITY, ALL EIA TONES AND DIGITAL CODES SQUELCH TAIL ELIMINATION

OPERATOR PROGRAMMABLE PRIORITY CTCSS AND DCSS SCAN

OEM MULTI-KEY DES-OFB ENCRYPTION

HOME BUTTON TO RETURN TO SOFTWARE DEFINED DEFAULT CHANNEL RECEIVER CHANNEL MONITOR BUTTON

TRANSMIT TALK-AROUND (SIMPLEX) BUTTON

ILLUMINATED DTMF ENCODING PAD HIGH/LOW POWER SWITCH OR BUTTON PER-CHANNEL POWER PROGRAMMING BACK LIT LCD ALPHA-NUMERIC DISPLAY, 12 CHARACTER MINIMUM TRANSMITTER VSWR PROTECTION

TRANSMIT TIME LIMITER, ADJUSTABLE

TRANSMITTER:

R.F. OUTPUT POWER: 6/5W.
FREQ. SPREAD: FULL BANDSPLIT.
FREQ. STABILITY: +/- 2.0 PPM.
SPURIOUS & HARMONICS: -75/-70 DBC.
FM HUM AND NOISE: -48/-45 DB WB, -42/-40 DB NB.
AUDIO DISTORTION: 1.5% a 1 KHZ.
EMISSIONS: 11K0F3E, 16K0F3E
8K10F1D, 20K0F1D

RECEIVER:

R.F. SENSITIVITY (12 DB. SINAD): 0.20/0.25 UV. SELECTIVITY: -80/-78 DB WB, -63/-60 DB NB. INTERMODULATION: -78/-75 BB. SPURIOUS & IMAGE REJECTION: -80 DB. AUDIO POWER @ DISTORTION: 0.5 W. @ 1% FREQ. SPREAD: FULL BANDSPLIT.

*******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS*******

I. AVAILABLE MANUFACTURER OPTIONS:

FACTORY PROGRAMMING,
STANDARD & HIGH CAPACITY BATTERIES,
DESK-TOP RAPID CHARGER,
SPEAKER/MICROPHONE,
LEATHER SWIVEL CARRYING CASE WITH 3- INCH BELT LOOP,
VEHICULAR CHARGER /CONSOLE, WITH SPEAKER, MICROPHONE, MOUNTING
HARDWARE, AND WIRING HARNESS

II. AVAILABLE VENDOR OPTIONS:

1/4 WAVELENGTH MAGNETIC-MOUNT MOBILE ANTENNA RG-58/U COAXIAL CABLE PL-259 CONNECTOR WITH REDUCER FOR RG-58/U CABLE N-MALE CONNECTOR FOR RG-58/U CABLE BNC-MALE CONNECTOR FOR RG-58/U CABLE TERMS AND CONDITIONS

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BNC-MALE CONNECTOR FOR RG-58/U CABLE 25 W. R.F. POWER AMPLIFIER

CATEGORY 210- 800 MHZ., 48 CHANNEL 3W. CONVENTIONAL ANALOG PORTABLE RADIO

THIS CATEGORY IS FOR 800 MHZ. CONVENTIONAL, ANALOG, 3 WATT, 48 CHANNEL, PORTABLE RADIOS

ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW LISTED FEATURES AS STANDARD:

FREQUENCY BAND: 806 - 870 MHZ.

CHANNELS: 48

CHANNEL SPACING: 12.5 (NPSPAC) AND 25 KHZ. MODE OF OPERATION: SIMPLEX AND HALF DUPLEX

EMISSION: ANALOG

TEMPERATURE RANGE: -30 TO +60 DEG. C.

R.F. SYNTHESIZED

P.C. PROGRAMMABLE

CTCSS AND DCSS CAPABILITY, ALL EIA TONES AND DIGITAL CODES

SQUELCH TAIL ELIMINATION

OPERATOR PROGRAMMABLE PRIORITY CTCSS AND DCSS SCAN

RECEIVER CHANNEL MONITOR BUTTON

TRANSMIT TALK-AROUND (SIMPLEX) BUTTON

HIGH/LOW POWER SWITCH OR BUTTON

PER-CHANNEL POWER PROGRAMMING

TRANSMITTER VSWR PROTECTION

TRANSMIT TIME LIMITER, ADJUSTABLE

MEETS MIL810 SPECIFICATIONS FOR SHOCK, VIBRATION, DUST, AND RAIN

TRANSMITTER:

R.F. OUTPUT POWER: 3W.

FREQ. SPREAD, FULL SPECS.: 806 - 825/851-869 MHZ

FREQ. STABILITY: +/- 1.5 PPM

CONDUCTED SPURIOUS EMISSION: -75 DBC.

FM HUM AND NOISE @ 25.0 KHZ.: -40 DB.

AUDIO DISTORTION: 3% @ 1 KHZ.

EMISSIONS: 11KOF3E, 16K0F3E

RECEIVER:

R.F. SENSITIVITY (12 DB. SINAD): 0.28 UV.

SELECTIVITY a 25.0 KHZ.: -72 DB.

INTERMODULATION: -72 DB

SPURIOUS & IMAGE REJECTION: -70 DB.

AUDIO POWER a DISTORTION: 0.5 W. a 3%

FREQ. SPREAD, FULL SPECS.: 851 - 870 MHZ.

*******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS*******

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******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS******

I. AVAILABLE MANUFACTURER OPTIONS:

FACTORY PROGRAMMING,
STANDARD & HIGH CAPACITY BATTERIES,
DESK-TOP RAPID CHARGER,
SPEAKER/MICROPHONE,
LEATHER SWIVEL CARRYING CASE WITH 3-INCH BELT LOOP,

II. AVAILABLE VENDOR OPTIONS:

1/4 WAVELENGTH MAGNETIC-MOUNT MOBILE ANTENNA RG-58/U COAXIAL CABLE PL-259 CONNECTOR WITH REDUCER FOR RG-58/U CABLE N-MALE CONNECTOR FOR RG-58/U CABLE BNC-MALE CONNECTOR FOR RG-58/U CABLE 15 W. R.F. POWER AMPLIFIER.

CATEGORY 211 255 CHANNEL 3 WATT PORTABLE TRUNKED RADIO

THIS CATEGORY IS FOR 700/800 MHZ CONVENTIONAL TRUNKED/2.5 WATT/3.0 WATT, 255 CHANNEL ANALOG / DIGITAL PORTABLE RADIOS TO BE COMPATIBLE WITH EXISTING DEPARTMENT OF CORRECTION RADIO SYSTEM. MOTOROLA XTS2500 TRUNKED PORTABLE RADIO.

ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW FEATURES AS STANDARD.

FREQUENCY BAND: 764-870 MHZ

CHANNEL: 255

CHANNEL SPACING: NPSPAC AND 25 KHZ TEMPERATURE RANGE: -30 TO +60 DEG. C.

EMISSION:

ANALOG OR DIGITAL

R.F. SYNTHESIZED P.C. PROGRAMMABLE

ILLUMINATED DISPLAY WITH ALPHA NUMERIC LETTERS

TRANSMIT TALK AROUND (SIMPLEX) BUTTON

EMERGENCY RESPONSE BUTTON, MAN DOWN.

(NO MERCURY OR OTHER AUTOMATIC ACTIVATION)

TRANSMITTER VSWR PROTECTION

TRANSMITTER:

RF OUTPUT POWER: 2.5 WATTS 700 MHZ 3.0 WATTS 800 MHZ

FREQUENCY SPREAD: FULL BAND 764-776/773-797/ AND 806-825/851-869 MHZ

FREQUENCY STABILITY: +/- 0.00015 %

EMISSIONS: -75 DBC AUDIO DISTORTION: 2%

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AUDIO DISTORTION:

2%

RECEIVER:

FREQUENCY SPREAD: 764-767/773-776/851-869 MHZ

SENSITIVITY:

ANALOG 12 DB SINAD .25 UV

DIGITAL 1% BER .40UV

INTERMODULATION: -74 DB

SPURIOUS REJECTION: -75 DB

AUDIO POWER AND DISTORTION: 0.5W @ 2.5%

HUM AND NOISE:

12.5 KHZ -40DB

25 KHZ -47DB

I. AVAILABLE MANUFACTURER OPTIONS:

FACTORY PROGRAMMING STANDARD AND HIGH CAPACITY NICKEL METAL HYDRIDE BATTERIES DESK TOP CHARGERS SPEAKER/MICROPHONES TEMPLE TRANSDUCER HEADSET PUBLIC SAFETY SHOULDER MICROPHONE **BATTERY ANALYZER**

II. AVAILABLE VENDOR OPTIONS

1/4 WAVELENGTH MAGNETIC-MOUNT MOBILE ANTENNA RG-58/U COAXIAL CABLE PL-259 CONNECTOR WITH REDUCER FOR RG-58/U CABLE N-MALE CONNECTOR FOR RG-58/U CABLE BNC-MALE CONNECTOR FOR RG-58/U CABLE

CATEGORY 212- 700/800 MHZ TRUNKED ANALOG/DIGITAL PORTABLE RADIO 512 CHANNELS

THIS CATEGORY IS FOR 800 MHZ. TRUNKED, 2.5 WATT, 512 CHANNELS, ANALOG / P25 CAI DIGITAL PORTABLE RADIOS TO BE COMPATIBLE WITH EXISTING TEMA, DEPT OF SAFETY AND DEPT OF CORRECTION RADIO SYSTEMS MOTOROLA XTS2500 TRUNKED PORTABLE RADIOS.

ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW LISTED FEATURES AS STANDARD:

FREQUENCY BAND: 764 - 869 MHZ.

CHANNELS: 512

CHANNEL SPACING: NARROWBAND, NPSPAC AND 25 KHZ.

MODE OF OPERATION: SIMPLEX AND HALF DUPLEX

EMISSION: ANALOG, P25 DIGITAL

TEMPERATURE RANGE: -30 TO +60 DEG. C.

R.F. SYNTHESIZED

P.C. PROGRAMMABLE

IMBE VOCODER

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IMBE VOCODER
CTCSS AND DCSS CAPABILITY, ALL EIA TONES AND DIGITAL CODES
SQUELCH TAIL ELIMINATION
OPERATOR PROGRAMMABLE PRIORITY CTCSS AND DCSS SCAN
RECEIVER CHANNEL MONITOR BUTTON
TRANSMIT TALK-AROUND (SIMPLEX) BUTTON
ILLUMINATED DTMF ENCODING PAD
SELECTIVE CALL DECODING WITH TWO-TONE SIGNALLING
HIGH/LOW POWER SWITCH OR BUTTON
PER-CHANNEL POWER PROGRAMMING
BACK LIT LCD ALPHA-NUMERIC DISPLAY
TRANSMITTER VSWR PROTECTION
TRANSMIT TIME LIMITER, ADJUSTABLE
MDC 1200 SIGNALING

TRANSMITTER:

R.F. OUTPUT POWER: 2.5 W.
FREQ. SPREAD, FULL SPECS: 764-797, 803-824, 851-869 MHZ
FREQ. STABILITY: +/- 1.5 PPM
SPURIOUS EMISSION: -70 DBC.
FM HUM AND NOISE: -45 DB WB/ -40 DB NB.
AUDIO DISTORTION: 2% @ 1 KHZ.
EMISSIONS: 16K0F3E ANALOG VOICE, 16K0F1D P25 DIGITAL

RECEIVER:

R.F. SENSITIVITY (12 DB. SINAD): 0.25 UV WB/NB ANALOG SELECTIVITY @ 25.0/12.5KHZ.: -72/-63 DB.
INTERMODULATION: -75 DB
SPURIOUS: -75 DBC.
AUDIO POWER @ DISTORTION: 0.5 W. / 2%
FREQ. SPREAD, FULL SPECS.: 764-767, 773-776, 851 - 869

******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS******

I. AVAILABLE MANUFACTURER OPTIONS:

FACTORY PROGRAMMING,
STANDARD & HIGH CAPACITY BATTERIES,
DESK-TOP RAPID & CONDITIONING CHARGER,
SPEAKER/MICROPHONE,
LEATHER SWIVEL CARRYING CASE WITH 3-INCH BELT LOOP,
VEHICULAR CHARGER/CONSOLE WITH SPEAKER,
HEADSET MICROPHONE,
REPLACEMENT MODULES & ANTENNAS
TEST EQUIPMENT
MOUNTING HARDWARE, AND WIRING HARNESS

II. AVAILABLE VENDOR OPTIONS:

1/4 WAVELENGTH MAGNETIC-MOUNT MOBILE ANTENNA RG-58/U COAXIAL CABLE

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RG-58/U COAXIAL CABLE
PL-259 CONNECTOR WITH REDUCER FOR RG-58/U CABLE
N-MALE CONNECTOR FOR RG-58/U CABLE
BNC-MALE CONNECTOR FOR RG-58/U CABLE
15 WATT R.F. POWER AMPLIFIER.

CATEGORY: STATIONS/REPEATERS

CATEGORY 300 - HF 2 - 30 MHZ SSB BASE STATION

THIS CATEGORY IS FOR HIGH FREQUENCY SSB ANALOG BASE STATIONS

ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW LISTED FEATURES AS STANDARD:

FREQUENCY BAND: 2 - 30 MHZ.

CHANNELS: 10

CHANNEL SPACING: 20 KHZ.

MODE OF OPERATION: SIMPLEX & HALF DUPLEX

EMISSION: ANALOG

R.F. IMPEDANCE, RECEIVER & TRANSMITTER: 50 OHMS

TEMPERATURE RANGE: -30 TO +60 DEG. C.

A. C. POWER: 120 VAC, 60 HZ.

R.F. SYNTHESIZED

FRONT PANEL FREQUENCY PROGRAMMABLE

SQUELCH

TRANSMITTER VSWR PROTECTION

TRANSMIT TIME LIMITER, ADJUSTABLE

METERING FACILITY (INTERNAL OR WITH P.C. OR EXTERNAL TEST SET)

BUILT-IN RECEIVER SPEAKER

TEST MICROPHONE

MIL-STD-810C,D,E

CHANNEL SCAN

TRANSMITTER:

R.F. OUTPUT POWER: 125W PEP.

FREQ. SPREAD, FULL SPECS.: 28 MHZ.

FREQ. STABILITY: +/- 6PPM

INTERMODULATION: -31 DB PEP

SPURIOUS EMISSION: -64 DB PEP.

HARMONICS:

-64 DB PEP.

CARRIER SUPPRESSION: -50 DB PEP

UNDESIRED SIDEBAND SUPPRESSION: -55 DB PEP.

AUDIO DISTORTION: 3% a 1 KHZ.

HUM & RIPPLE: -50 DB

INBAND NOISE: -60 DB (30 HZ BW) EMISSIONS: J3E, R3E, H3E, J2A, J2B

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RECEIVER:

R.F. SENSITIVITY (10 DB. SINAD SSB): 0.50 UV. SELECTIVITY @ 30.0 KHZ.: -60 DB @ -1 KHZ. IMAGE REJECTION: -80 DB. IF REJECTION: -85 DB. UNDESIRED SIDEBAND REJECTION: -55 DB0 -1 KHZ. CROSS MODULATION REJECTION: -100 DB@ 100KHZ. DESENSSITIZATION: -100 DB @ 100KHZ. INTERMODULATION: -80 DB. SPURIOUS REJECTION: -80 DB. RECIPROCAL MIXING: -100 DBa 100KHZ CLARIFIER RANGE: +/- 200 HZ IN 10 HZ STEPS AUDIO DISTORTION: 3% MAX. @ 1 KHZ. FREQ. SPREAD, FULL SPECS.: 8 MHZ.

******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS******

I. AVAILABLE MANUFACTURER OPTIONS:

AUTOMATIC LINK ESTABLISHMENT (ALE) FEDERAL STANDARD 1045 & MIL STD188 AUTOMATIC ANTENNA TUNER HIGH STABILITY OSCILLATOR FAX / DATA MODEM 1000W POWER AMPLIFIER 12V DC OPERATION HF ANTENNAS

II. AVAILABLE VENDOR OPTIONS

1/2" CORRAGATED COPPER FEEDLINE 7/8" CORRAGATED COPPER FEEDLINE N-FEMALE CONNECTOR FOR 1/2" CORRAGATED COPPER FEEDLINE N-FEMALE CONNECTOR FOR 7/8" CORRAGATED COPPER FEEDLINE

CATEGORY 301- VHF LOW AND/OR HIGH BAND RADIO STATIONS

THIS CATEGORY IS FOR VHF LOW AND/OR HIGH BAND BASE AND REPEATER STATIONS. THE SLASH MARK (/) IN THIS DOCUMENT REFERS TO VHF LOW BAND ON THE LEFT SIDE AND VHF HIGH BAND ON THE RIGHT SIDE EXCEPT FOR +/-SPECIFICATIONS.

ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE COMPATIBLE WITH EXISTING DEPARTMENT OF SAFETY AND DEPARTMENT OF TRANSPORTATION RADIO NETWORKS DANIELS EQUIPMENT LINE AND EQUIPPED WITH THE BELOW LISTED FEATURES AS STANDARD:

FREQUENCY RANGE: 38 - 50 MHZ./150 - 174 MHZ.

CHANNELS: 16 TERMS AND CONDITIONS

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CHANNELS: 16 CHANNEL SPACING: 20 AND 25 KHZ./12.5, 25 AND 30 KHZ. MODE OF OPERATION: BASE (SIMPLEX), REPEATER (DUPLEX) AVAILABLE CONFIGURATIONS: BASE STATION, REPEATER, CROSS-BAND REPEATER, LINKED STATION, TWO RECEIVERS AND TWO TRANSMITTERS FRONT PLUG-IN MODULAR CONSTRUCTION FOR RECEIVER, TRANSMITTER, AUDIO CONTROL UNIT, MONITORING UNIT, POWER AMPLIFIER CONSTRUCTION MUST NOT INCORPORATE MOBILE RADIO UNITS TEMPERATURE RANGE: -30 TO +60 DEG. C. OPERATING HUMIDITY: 95% AT 25 DEG. C. INPUT POWER: 120/240 VAC, 60 HZ. STANDARD E.I.A. 19-INCH RACK MOUNTABLE CONTINUOUS DUTY OPERATION R.F. SYNTHESIZED PROGRAMMABLE CTCSS/DCSS (DCSS IS OPTIONAL) SQUELCH TAIL ELIMINATION E&M CONTROL FUNCTIONS (AC-3E) TONE REMOTE CONTROL 2-WIRE AND 4-WIRE LINE AUDIO, 600-OHM I/O C.O.R. INTERFACE TRANSMITTER VSWR PROTECTION (UP TO 2.5:1 VSWR) TRANSMIT TIME LIMITER, ADJUSTABLE DROP-OUT DELAY TIMER, ADUSTABLE (IN REPEATER CONFIGURATION) METERING FACILITY (INTERNAL OR WITH P.C. OR EXTERNAL TEST SET) MONITOR SPEAKER ANTENNA RELAY/BP-BR DUPLEXER TEST MICROPHONE, STANDARD ANTENNA CHANGE OVER RELAY/METER PANEL ISO9002 QUALITY ASSURANCE RECEIVER NOISE BLANKER ON VHF LOW BAND

TRANSMITTER:

R.F. OUTPUT POWER: 100/100 WATTS
FREQ. SPREAD, FULL SPECS.: +/- 2 MHZ./ +/- 2 MHZ.
FREQ. STABILITY: +/- 1 PPM
HARMONICS: -90 DBC.
SPURIOUS OUTPUT: -80/-90 DBC.
FM HUM AND NOISE: -45 DB.
AUDIO DISTORTION: 3% @ 1 KHZ.
EMISSIONS: FM ANALOG- 16KOF3E AND 11KOF3E

R.F. SENSITIVITY (12 DB. SINAD): -116/-118 DBM.

RECEIVER:

SELECTIVITY:

a 25.0 KHZ.: -90 DB.
a 30.0 KHZ.: -90 DB.
INTERMODULATION: -85/-90 DB.
SPURIOUS RESPONSE: -95/-90 DB. (NB) AND -95 DB. (WB)
SQUELCH THRESHOLD: -123 TO -105 DBM.
SQUELCH HYSTERESIS: ADJUSTABLE FROM 2 TO 20 DB.
R.F. ATTACK/CLOSING TIME: <10MS.
AUDIO DISTORTION, THD: <2%

@ 12.5 KHZ.: -85 DB.

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AUDIO DISTORTION, THD: <2% FREQ. SPREAD, FULL SPECS.: +/- 0.5 MHZ./ +/- 2 MHZ.

******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS******

I. AVAILABLE MANUFACTURER OPTIONS

AVAILABLE MANUFACTURER OPTIONS TO INCLUDE: UHF, 800 MHZ. RECEIVER AND TRANSMITTER MODULES AND DUPLEXERS, 20 - 30 WATT R.F. AMPLIFIER MODULE ON VHF HIGH BAND AND UHF, 100 WATT OUTPUT ON UHF, 90 WATT OUTPUT ON 800 AND 900 MHZ. BANDS, CTCSS ENCODER/DECODER, DCSS ENCODER/DECODER, AUX. CONNECTOR (TO ACCESS PTT, COR, RX AUDIO, TX AUDIO, DISC. AUDIO, MUTE, AND SUBTONE AUDIO I/P), INTERFACE CABLE FOR EXTERNAL RADIO CONTROL, SYSTEM MONITOR MODULES, SUBRACKS- VARIOUS COMBINATIONS, ALUMINUM PRESSURE-TESTED TRANSPORT CASE, DC CONVERTERS, PORTABLE RADIO PACKAGE, PORTABLE STATION CONTROL CARD, SERVICE CARDS AND CABLES, TERMINAL BLOCKS WITH ONE AND TWO 12-PIN BARRIER STRIPS, R.F. CABLES, PROGRAMMER, APPLICATION SUPPORT AND TRAINING COURSES,

AVAILABLE VENDOR OPTIONS:

1/2" CORRAGATED COPPER FEEDLINE
7/8" CORRAGATED COPPER FEEDLINE
N-FEMALE CONNECTOR FOR 1/2" CORRAGATED COPPER FEEDLINE
N-FEMALE CONNECTOR FOR 7/8" CORRAGATED COPPER FEEDLINE

CATEGORY 302 - VHF/UHF P25 REPEATER STATION

THIS CATEGORY IS FOR BOTH VHF HIGH-BAND AND UHF ANALOG & P25 REPEATER STATIONS FULLY COMPATABLE WITH THE EXISTING TEMA & TWRA P25 SYSTEM

ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW LISTED FEATURES AS STANDARD:

FREQUENCY BANDS: 150 - 174/450 - 470 MHZ. CHANNELS: CHANNEL SPACING: 12.5 AND 30 KHZ. (VHF), 12.5 AND 25 KHZ. (UHF) MODE OF OPERATION: HALF AND FULL DUPLEX EMISSION: ANALOG & P25DIGITAL R.F. IMPEDANCE, RECEIVER & TRANSMITTER: 50 OHMS TEMPERATURE RANGE: -30 TO +60 DEG. C. A. C. POWER: 120 VAC, 60 HZ. PLUG-IN MODULAR CONSTRUCTION STANDARD E.I.A. 19-INCH RACK MOUNTABLE DC BACK-UP POWER WITH AUTO. SWITCH OVER, INTERNAL CHARGER AND ON-AIR ALARM CONTINUOUS DUTY R.F. SYNTHESIZED P.C. PROGRAMMABLE CTCSS AND DCSS, ALL EIA CTCSS AND DCSS CODES SQUELCH TAIL ELIMINATION

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SQUELCH TAIL ELIMINATION
TONE REMOTE CONTROL
2-WIRE OR 4-WIRE LINE AUDIO
TRANSMITTER VSWR PROTECTION
TRANSMIT TIME LIMITER AND TRANSMITTER DROP-OUT DELAY TIMER,
ADJUSTABLE
METERING FACILITY WITH P.C.
BUILT-IN RECEIVER SPEAKER
TEST MICROPHONE
AUTOMATIC C.W. IDENTIFIER WITH ADJUSTABLE TIMING
BAND PASS/BAND REJECT DUPLEXER

TRANSMITTER:

R.F. OUTPUT POWER: 100W.

FREQ. SPREAD, FULL SPECS.: 12/20 MHZ..

FREQ. STABILITY: +/- 1.0 PPM

SPURIOUS & HARMONICS: -90 DB.

FM HUM AND NOISE: -50 DB WB / 45 DB NB.

AUDIO DISTORTION: 2% @ 1 KHZ.

EMISSIONS: 11K0F3E, 16K0F3E, 16K0F1D, 10K0F1D

RECEIVER:

R.F. SENSITIVITY (12 DB. SINAD): 0.25UV / 0.35 UV.

SELECTIVITY @ 12.5 KHZ.: -80/75 DB

@ 25.0 KHZ.: -85/85 DB.

a 30.0 KHZ.: -90

INTERMODULATION: -85 DB.

SPURIOUS & IMAGE REJECTION: -100 DB.

LINE OUTPUT: -20 TO 0 DBM @ 1 KHZ.

AUDIO DISTORTION: 5% MAX. @ 1 KHZ.

FREQ. SPREAD, FULL SPECS.: 4 MHZ.

*******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS******

I. AVAILABLE MANUFACTURER OPTIONS:

INDOOR, FLOOR-MOUNT CABINET, 30-IN. HIGH (MAX.) WITH LOCKING REMOVABLE DOOR(S)
19"EIA RACK
VOTING TONE ENCODER

BASE STATION ANTENNAS & MOUNTS

FEEDLINE, CONECTORS, LIGHTNING PROTECTION

TRANSMIT COMBINERS & MULTICOUPLERS

II. AVAILABLE VENDOR OPTIONS

1/2" CORRAGATED COPPER FEEDLINE
7/8" CORRAGATED COPPER FEEDLINE

N-FEMALE CONNECTOR FOR 1/2" CORRAGATED COPPER FEEDLINE N-FEMALE CONNECTOR FOR 7/8" CORRAGATED COPPER FEEDLINE

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CATEGORY 303 - VHF/UHF REPEATER STATION, W/ ENCRYPTION

THIS CATEGORY IS FOR BOTH VHF HIGH-BAND AND UHF ANALOG REPEATER STATIONS FULLY COMPATABLE WITH MOTOROLA SECURENET FOR EXISTING TBI SYSTEM

ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW LISTED FEATURES AS STANDARD:

FREQUENCY BANDS: 150 - 174/450 - 470 MHZ. CHANNELS: CHANNEL SPACING: 12.5 AND 30 KHZ. (VHF), 12.5 AND 25 KHZ. (UHF) MODE OF OPERATION: HALF AND FULL DUPLEX EMISSION: ANALOG & P25 DIGITAL R.F. IMPEDANCE, RECEIVER & TRANSMITTER: 50 OHMS TEMPERATURE RANGE: -30 TO +60 DEG. C. A. C. POWER: 120 VAC. 60 HZ. PLUG-IN MODULAR CONSTRUCTION STANDARD E.I.A. 19-INCH RACK MOUNTABLE DC BACK-UP POWER WITH AUTO. SWITCH OVER, INTERNAL CHARGER AND ON-AIR ALARM CONTINUOUS DUTY R.F. SYNTHESIZED P.C. PROGRAMMABLE CTCSS AND DCSS, ALL EIA CTCSS AND DCSS CODES SQUELCH TAIL ELIMINATION TONE REMOTE CONTROL 2-WIRE OR 4-WIRE LINE AUDIO TRANSMITTER VSWR PROTECTION

BUILT-IN RECEIVER SPEAKER TEST MICROPHONE

METERING FACILITY WITH P.C.

AUTOMATIC C.W. IDENTIFIER WITH ADJUSTABLE LEVEL AND TIMING BAND PASS/BAND REJECT DUPLEXER

TRANSMIT TIME LIMITER AND TRANSMITTER DROP-OUT DELAY TIMER,

TRANSMITTER:

ADJUSTABLE

R.F. OUTPUT POWER: 100W. FREQ. SPREAD, FULL SPECS.: 12/20 MHZ.. FREQ. STABILITY: +/- 1.0 PPM SPURIOUS & HARMONICS: -90 DB. FM HUM AND NOISE: -50 DB WB / 45 DB NB. AUDIO DISTORTION: 2% @ 1 KHZ. EMISSIONS: 11K0F3E, 16K0F3E, 16K0F1D, 10K0F1D

RECEIVER:

R.F. SENSITIVITY (12 DB. SINAD): 0.25UV / 0.35 UV. SELECTIVITY @ 12.5 KHZ.: -80/75 DB

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SELECTIVITY @ 12.5 KHZ.: -80/75 DB @ 25.0 KHZ.: -85/85 DB.

a 30.0 KHZ.: -90

INTERMODULATION: -85 DB.

SPURIOUS & IMAGE REJECTION: -100 DB.

LINE OUTPUT: -20 TO 0 DBM @ 1 KHZ.

AUDIO DISTORTION: 5% MAX. @ 1 KHZ.

FREQ. SPREAD, FULL SPECS.: 4 MHZ.

******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS*****

I. AVAILABLE MANUFACTURER OPTIONS:

INDOOR, FLOOR-MOUNT CABINET, 30-IN. HIGH (MAX.) WITH LOCKING REMOVABLE DOOR(S)
19" EIA RACK
VOTING TONE ENCODER
ENCRYPTION DES / AES

BASE STATION ANTENNAS & MOUNTS

FEEDLINE & CONNECTORS

II. AVAILABLE VENDOR OPTIONS

1/2" CORRAGATED COPPER FEEDLINE
7/8" CORRAGATED COPPER FEEDLINE
N-FEMALE CONNECTOR FOR 1/2" CORRAGATED COPPER FEEDLINE
N-FEMALE CONNECTOR FOR 7/8" CORRAGATED COPPER FEEDLINE

CATEGORY 304- VHF HIGHBAND/UHF/800 MHZ. REPEATER

THIS CATEGORY IS FOR VHF HIGH-BAND, UHF, AND 800 MHZ. ANALOG REPEATER STATIONS.

ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW LISTED FEATURES AS STANDARD:

FREQUENCY BAND: 150 - 174/450 - 470/806 - 870 MHZ.

CHANNELS: 1

CHANNEL SPACING: 12.5 AND 30 KHZ.(VHF),12.5 AND 25 KHZ. (UHF/800 MHZ.)

MODE OF OPERATION: DUPLEX

EMISSION: ANALOG

R.F. IMPEDANCE, RECEIVER & TRANSMITTER: 50 OHMS

TEMPERATURE RANGE: -30 TO +60 DEG. C.

A. C. POWER: 120 VAC, 60 HZ.

STANDARD E.I.A. 19-INCH RACK MOUNTABLE

12 VDC. BACK-UP POWER WITH AUTO. SWITCH OVER, CHARGER AND ON-AIR ALARM CONTINUOUS DUTY

R.F. SYNTHESIZED

P.C. PROGRAMMABLE

CTCSS AND DCSS, ALL EIA TONES AND DIGITAL CODES

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CTCSS AND DCSS, ALL EIA TONES AND DIGITAL CODES
SQUELCH TAIL ELIMINATION
TONE REMOTE CONTROL
2-WIRE OR 4-WIRE LINE AUDIO
TRANSMITTER VSWR PROTECTION
TRANSMIT TIME LIMITER, ADJUSTABLE
METERING FACILITY WITH P.C.
TEST MICROPHONE OR HANDSET
AUTOMATIC C.W. IDENTIFIER WITH ADJUSTABLE TIMING AND LEVEL
ADJUSTABLE 0 - 8 SECOND TRANSMIT DROPOUT TIMER

TRANSMITTER:

R.F. OUTPUT POWER: 100/100/75W.
FREQ. SPREAD, FULL SPECS.: 2/2/0.5 MHZ.
FREQ. STABILITY: +/- 1.5 PPM
SPURIOUS & HARMONICS: -85/-85/-80 DB.
FM HUM AND NOISE: -50 DB WB / -45 DB NB.
AUDIO DISTORTION: 3% @ 1 KHZ.
EMISSIONS: 11K0F3E, 16K0F3E

RECEIVER:

R.F. SENSITIVITY (12 DB. SINAD): 0.35
SELECTIVITY::-80/-80/-80 DB WB, -75/-75/-70 DB NB.
INTERMODULATION: -80 DB WB, -75 DB NB.
SPURIOUS & IMAGE REJECTION: -85/-85/-90 DB.
LINE OUTPUT: -20 TO 0 DBM @ 1 KHZ.
AUDIO DISTORTION: 3% MAX. @ 1 KHZ.
FREQ. SPREAD, FULL SPECS:: 2/2/0.5 MHZ.

******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS******

I. AVAILABLE MANUFACTURER OPTIONS:

INDOOR, FLOOR-MOUNT CABINET, WITH LOCKING REMOVABLE DOOR(S)
BAND PASS - BAND REJECT RF DUPLEXER

II. AVAILABLE VENDOR OPTIONS

RECEIVER R.F. PRE-SELECTOR

1/2" CORRAGATED COPPER FEEDLINE

7/8" CORRAGATED COPPER FEEDLINE

N-FEMALE CONNECTOR FOR 1/2" CORRAGATED COPPER FEEDLINE

N-FEMALE CONNECTOR FOR 7/8" CORRAGATED COPPER FEEDLINE

CATEGORY 305 - 700 MHZ. DIGITAL REPEATER STATION

THIS CATEGORY IS FOR 700 MHZ. DIGITAL, REPEATER STATIONS CAPABLE OF

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THIS CATEGORY IS FOR 700 MHZ. DIGITAL, REPEATER STATIONS CAPABLE OF EITHER VOICE OR DATA.

ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW LISTED FEATURES:

FREQUENCY BAND: 764 - 806 MHZ.

CHANNELS:

CHANNEL SPACING: 25 KHZ. AND 12.5 KHZ MODE OF OPERATION: HALF AND FULL DUPLEX

EMISSION: DIGITAL P25

R.F. IMPEDANCE, RECEIVER & TRANSMITTER: 50 OHMS

TEMPERATURE RANGE: -30 TO +60 DEG. C.

PLUG-IN MODULAR CONSTRUCTION

STANDARD E.I.A. 19-INCH RACK MOUNTABLE

DC. BACK-UP POWER WITH AUTO. SWITCH OVER, INTERNAL CHARGER AND ALARM

CONTINUOUS DUTY

R.F. SYNTHESIZED

P.C. PROGRAMMABLE

STATION ACCESS CODE

TRANSMITTER VSWR PROTECTION

TRANSMIT TIME LIMITER AND TRANSMITTER DROP-OUT DELAY TIMER,

ADJUSTABLE

METERING FACILITY (INTERNAL OR WITH P.C. OR TEST SET)

AUTOMATIC C.W. IDENTIFIER WITH ADJUSTABLE LEVEL AND TIMING

BAND PASS/BAND REJECT DUPLEXER

RECEIVER MULTI-COUPLER

TRANSMIT COMBINER

TRANSMITTER:

R.F. OUTPUT POWER: 40W.

FREQ. SPREAD, FULL SPECS.: 764 - 776 MHZ.

FREQ. STABILITY: +/- 1.0 PPM

SPURIOUS & HARMONICS: -80 DB.

AUDIO DISTORTION: 2% @ 1 KHZ.

EMISSIONS: 8K70F1E, 8K70D1W

RECEIVER:

R.F. SENSITIVITY (BER 5%): -121 DBM

INTERMODULATION: -80 DB.

SPURIOUS & IMAGE REJECTION: -85 DB.

ADJACENT CHANNEL REJECTION: -60 DB

FREQ. SPREAD, FULL SPECS.: 794 - 806 MHZ.

*******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS******

I. AVAILABLE MANUFACTURER OPTIONS:

INDOOR, OUTDOOR CABINET, WITH LOCKING REMOVABLE DOOR(S)
19" EIA STANDARD RACKS
BASE STATIONS ANTENNAS, FEEDLINE, CONNECTORS AND LIGHTNING PROTECTION

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BASE STATIONS ANTENNAS, FEEDLINE, CONNECTORS AND LIGHTNING PROTECTION & SITE GROUNDING DEVICES CROSS BANDING DEVICES REPLACEMENT MODULES TEST EQUIPMENT

II. AVAILABLE VENDOR OPTIONS

1/2" CORRAGATED COPPER FEEDLINE 7/8" CORRAGATED COPPER FEEDLINE N-FEMALE CONNECTOR FOR 1/2" CORRAGATED COPPER FEEDLINE N-FEMALE CONNECTOR FOR 7/8" CORRAGATED COPPER FEEDLINE

CATEGORY 306 - 800 MHZ. TRUNKED REPEATER STATION

THIS CATEGORY IS FOR 800 MHZ. TRUNKED, ANALOG/DIGITAL, REPEATER STATIONS, FULL COMPATABLE WITH EXISTING MOTOROLA TRUNKING SYSTEMS USED BY TN DEPT. OF CORRECTION, TEMA AND DEPT OF SAFETY MOTOROLA QUANTAR REPEATERS. ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE

FREQUENCY BAND: 806 - 869 MHZ.

CHANNELS:

CHANNEL SPACING: 25 KHZ. AND NPSPAC

MODE OF OPERATION: HALF AND FULL DUPLEX

EMISSION: ANALOG

BELOW LISTED FEATURES:

R.F. IMPEDANCE, RECEIVER & TRANSMITTER: 50 OHMS

TEMPERATURE RANGE: -30 TO +60 DEG. C.

A. C. POWER: 120 VAC, 60 HZ.

PLUG-IN MODULAR CONSTRUCTION

STANDARD E.I.A. 19-INCH RACK MOUNTABLE

DC. BACK-UP POWER WITH AUTO. SWITCH OVER, INTERNAL CHARGER AND ALARM

CONTINUOUS DUTY

R.F. SYNTHESIZED

P.C. PROGRAMMABLE

CTCSS AND DCSS

SQUELCH TAIL ELIMINATION

TONE REMOTE CONTROL

2-WIRE OR 4-WIRE LINE AUDIO

TRANSMITTER VSWR PROTECTION

TRANSMIT TIME LIMITER AND TRANSMITTER DROP-OUT DELAY TIMER,

ADJUSTABLE

METERING FACILITY (INTERNAL OR WITH P.C. OR TEST SET)

BUILT-IN RECEIVER SPEAKER

TEST MICROPHONE

AUTOMATIC C.W. IDENTIFIER WITH ADJUSTABLE LEVEL AND TIMING

BAND PASS/BAND REJECT DUPLEXER

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BAND PASS/BAND REJECT DUPLEXER RECEIVER MULTI-COUPLER TRANSMIT COMBINER

TRANSMITTER:

R.F. OUTPUT POWER: 100W.
FREQ. SPREAD, FULL SPECS.: 851 - 869 MHZ.
FREQ. STABILITY: +/- 1.0 PPM
SPURIOUS & HARMONICS: -80 DB.
FM HUM AND NOISE: -45 DB WB.
AUDIO DISTORTION: 2% @ 1 KHZ.
EMISSIONS: 16K0F3E, 16K0F1D, 20K0F1E

RECEIVER:

R.F. SENSITIVITY (12 DB. SINAD): 0.30 UV. SELECTIVITY @ 12.5.0 KHZ.: -70 DB.

a 25.0 KHZ.: -80 DB.

INTERMODULATION: -85 DB.

SPURIOUS & IMAGE REJECTION: -100 DB.

LINE OUTPUT: -20 TO 0 DBM @ 1 KHZ.

AUDIO DISTORTION: 5% MAX. @ 1 KHZ.

FREQ. SPREAD, FULL SPECS.: 806 - 825 MHZ.

******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS*****

I. AVAILABLE MANUFACTURER OPTIONS:

INDOOR, FLOOR-MOUNT CABINET, 30-IN. HIGH (MAX.) WITH LOCKING REMOVABLE DOOR(S)

19" EIA STANDARD RACKS
BASE STATIONS ANTENNAS, FEEDLINE, CONNECTORS AND LIGHTNING PROTECTION REPLACEMENT MODULES

II. AVAILABLE VENDOR OPTIONS

1/2" CORRAGATED COPPER FEEDLINE
7/8" CORRAGATED COPPER FEEDLINE
N-FEMALE CONNECTOR FOR 1/2" CORRAGATED COPPER FEEDLINE
N-FEMALE CONNECTOR FOR 7/8" CORRAGATED COPPER FEEDLINE

CATEGORY 307 - 800 MHZ, DATA BASE STATION

THIS CATEGORY IS FOR 800 MHZ., ANALOG, RD-LAP 19.2 DATA BASE STATIONS COMPATIBLE WITH EXISTING DEPARTMENT OF SAFETY DATA NETWORK MOTOROLA QUANTAR REPEATERS.

ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW LISTED FEATURES AS STANDARD:

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FREQUENCY BAND: 806 - 869 MHZ. CHANNELS: 1; SYNTHESIZED CHANNEL SPACING: 25 KHZ. MODE OF OPERATION: HALF AND FULL DUPLEX EMISSION: RD-LAP 19.2, +/- 5.6 KHZ. R.F. IMPEDANCE, RECEIVER & TRANSMITTER: 50 OHMS TEMPERATURE RANGE: -30 TO +60 DEG. C. A. C. POWER: 120 VAC, 60 HZ. PLUG-IN MODULAR CONSTRUCTION STANDARD E.I.A. 19-INCH RACK MOUNTABLE DC. BACK-UP POWER WITH AUTO. SWITCH OVER, INTERNAL CHARGER AND ALARM CONTINUOUS DUTY R.F. SYNTHESIZED P.C. PROGRAMMABLE CTCSS AND DCSS SQUELCH TAIL ELIMINATION TONE REMOTE CONTROL 2-WIRE OR 4-WIRE LINE AUDIO TRANSMITTER VSWR PROTECTION TRANSMIT TIME LIMITER AND TRANSMITTER DROP-OUT DELAY TIMER, ADJUSTABLE METERING FACILITY (INTERNAL OR WITH P.C. OR TEST SET) BUILT-IN RECEIVER SPEAKER TEST MICROPHONE AUTOMATIC C.W. IDENTIFIER WITH ADJUSTABLE LEVEL AND TIMING BAND PASS/BAND REJECT DUPLEXER

TRANSMITTER:

R.F. OUTPUT POWER: 100 / 25W.
FREQ. SPREAD, FULL SPECS.: 851 - 869 MHZ.
FREQ. STABILITY: +/- 1.5 PPM
SPURIOUS & HARMONICS: -36 DBM.
FM HUM AND NOISE: -45 DB.
AUDIO DISTORTION: 3% @ 1 KHZ.
EMISSIONS: 20K0F10

RECEIVER

R.F. SENSITIVITY (12 DB. SINAD): 0.30 UV.

SEL'ECTIVITY @ 12.5 KHZ.: -70 DB.

@ 25.0 KHZ.: -70 DB.

INTERMODULATION: -85 DB.

SPURIOUS & IMAGE REJECTION: -100 DB.

LINE OUTPUT: -20 TO 0 DBM @ 1 KHZ.

AUDIO DISTORTION: 5% MAX. @ 1 KHZ.

FREQ. SPREAD, FULL SPECS.: 806 - 824 MHZ.

******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS*****

I. AVAILABLE MANUFACTURER OPTIONS:

INDOOR, FLOOR-MOUNT CABINET, 30-IN. HIGH (MAX.) WITH LOCKING

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INDOOR, FLOOR-MOUNT CABINET, 30-IN. HIGH (MAX.) WITH LOCKING REMOVABLE DOOR(S)
DATA TRANSMITER
DATA RECEIVER
OTHER MANUFACTURER OPTIONS NOT LISTED
AVAILABLE VENDOR OPTIONS:
BAND PASS/BAND REJECT DUPLEXER
RECEIVER MULTI-COUPLER
TRANSMIT COMBINER
RADIO NODE CONTROLLER
800MHZ ANTENNAS AND MOUNTS
FEEDLINE, CONNECTORS
RADIO MODEM
REPLACEMENT MODULES

II. AVAILABLE VENDOR OPTIONS:

LIGHTNING AND GROUND DEVICES

1/2" CORRAGATED COPPER FEEDLINE
7/8" CORRAGATED COPPER FEEDLINE
N-FEMALE CONNECTOR FOR 1/2" CORRAGATED COPPER FEEDLINE
N-FEMALE CONNECTOR FOR 7/8" CORRAGATED COPPER FEEDLINE

CATEGORY 400- 4.9 GHZ., DIGITAL, 1XT1 CAPACITY, MICROWAVE STATIONS

THIS CATEGORY IS FOR DIGITAL MICROWAVE STATIONS OPERATING IN THE 4.9 GHZ. PUBLIC SAFETY MICROWAVE BAND FOR POINT-TO-POINT TRANSMISSION FOR VOICE AND DIGITAL DATA.

ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW LISTED FEATURES AS STANDARD:

R.F FREQUENCY BAND: 4.940 - 4.990 GHZ.

CAPACITY: 1XT1 - 4XT1

DIGITAL LINE INTERFACE RATE FOR DS1: 1.544 MBPS

MODULATION TYPE: 160AM

FORWARD ERROR CORRECTION

SYSTEM GAIN: 20 DBI

STATUS AND SYSTEM ALARMS: LED AND ALARM RELAYS WITH NETWORK MANAGEMENT

LINK AND STATUS CONTROL

FCC PART 90 COMPLIANT

VOLTAGE REQUIREMENTS: 9 - 18VDC OR 18 TO 75 VDC, 30W MAX OPERATING TEMPERATURE RANGE: -40 TO +70 DEG. C. AT 100% HUMIDITY

MOUNTING: STANDARD 19-INCH E.I.A. OR DIRECT TO TOWER WITH NEMA WEATHER PROOF HOUSING

TRANSMITTER:

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R.F. OUTPUT POWER: UP TO +20 DBM

RECEIVER:

RECEIVE LEVEL: -30DBM ERROR FREE (+10DBM WITHOUT DAMAGE)

******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS******

I. AVAILABLE MANUFACTURER OPTIONS: REPLACEMENT MODULES EXTERNAL ANTENNA CONNECTION

II. AVAILABLE VENDOR OPTIONS:

MICROWAVE ANTENNAS
TEST EQUIPMENT
MULTIPLEXER CHANNEL BANK
MULTIPLEXER VOICE & DATA CARDS

CATEGORY 401- DIGITAL, 8DS1/OC-3 CAPACITY, MICROWAVE STATIONS

THIS CATEGORY IS FOR HIGH CAPACITY, DIGITAL MICROWAVE STATIONS AND ASSOCIATED EQUIPMENT TO BE COMPATIABLE WITH EXISTING TDOS (8DS1) AND TDOT (OC-3) HARRIS TRUEPOINT PRODUCT LINE WITH STARVIEW NETWORK MANAGEMENT AND HARRIS INTRAPLEX MUXES.

ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW LISTED FEATURES AS STANDARD:

R.F FREQUENCY BAND: 6/10.5/11/18/23 GHZ COMMON PLATFORM MODE OF OPERATION - R.F. SYNTHESIZED OR CRYSTAL OSCILLATORS DATA CAPACITY: 8DS1 - OC-3
DIGITAL LINE RATE FOR DS1: 1.544 MBPS
MODULATION TYPE: 4QAM - 128QAM SOFTWARE PROGRAMMABLE
R.F EMISSION TYPE: PER FCC PART 101 RULES
CHANNEL BANDWIDTH: PER FCC PART 101 RULES.

MINIMUM SYSTEM GAIN: MEASURED @ 10-6BER THRESHOLD GUARANTEED (REFERENCED TO A NON-PROTECTED CONFIGURATION AT 25DEG C) 6GHZ: 8DS1=108DB/OC3=93DB 10/11GHZ: 8DS1=104DB/OC3=89DB 18GHZ: 8DS1=106DB/OC3=91.5DB

DISPERSIVE FADE MARGIN (DFM): 8DS1=68 DB/ OC3=50DB @ 10EE-3 BIT ERROR RATE (BER)

RECEIVER THRESHOLD

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RECEIVER THRESHOLD

PATH PROTECTION: 1 X 1 HOT STANDBY AUTOMATIC POWER CONTROL: 10 DB.

SERVICE CHANNEL: ONE AUDIO CHANNEL (300 - 3,400 HZ.) AND ONE RS-232, 19.2 KBPS, ASYNCH. DATA CHANNEL

STATUS AND SYSTEM ALARMS
EXTERNAL ALARMS: 2-TTL
EXTERNAL CONTROLS: 4- FORM C DRY CONTACTS

MAIN A.C. INPUT TO POWER SUPPLY: 120 VAC, 60 HZ. NOMINAL, SINGLE PHASE. SIZED FOR EQUIPMENT INCLUDING APPLICABLE FUSES/BREAKERS.

EQUIPMENT D.C. VOLTAGE REQUIREMENTS: +/- 24 OR +/- 48 VDC. OPERATING TEMPERATURE RANGE: +5 TO +50 DEG. C. AT 95% HUMIDITY

CONSTRUCTION: PLUG-IN MODULAR WITH 100% FRONT PANEL ACCESSIBILITY AND L.E.D. FAILURE INDICATORS

MOUNTING: STANDARD 19-INCH E.I.A.

WAVEGUIDE FLANGE: 6GHZ: CPR137G 10/11GHZ: CPR90G 18GHZ: UG596A/U

TRANSMITTER:

R.F. OUTPUT POWER: MINIMUM TRANSMIT POWER GUARANTEED (REFERENCED TO A NON-PROTECTED CONFIGURATION) CARRIER STABILITY: 0.001%

6GHZ: 8DS1=24.5DBM / OC3=22.5DBM MINIMUM 10/11GHZ: 8DS1=23DBM / OC3=19DBM MINIMUM 18GHZ: 8DS1=24DBM / OC3=19DBM MINIMUM

RECEIVER:

BIT ERROR RATE (BER): MINIMUM RECEIVER THRESHOLD @10-6BER GUARANTEED STABILITY: 0.001%

6GHZ: 8DS1=-83.5DBM / OC3=-70.5DBM MINIMUM 10/11GHZ: 8DS1=-82DBM / OC3=-74DBM MINIMUM 18GHZ: 8DS1=-87DBM / OC3=-72.5DBM MINIMUM

******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS*****

I. AVAILABLE MANUFACTURER OPTIONS:
ALTERNATE FREQUENCY BAND/BANDWIDTH RADIOS WITHIN THE SAME PRODUCT
FAMILY PER FCC LICENSING REGULATIONS
INTEGRAL ORDERWIRE MODULE WITH DTMF SIGNALING,
DELETE INDIVIDUAL VF CHANNEL MODULES,
DELETE HOT STANDBY,

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DELETE HOT STANDBY, ADD SPACE DIVERSITY

II. AVAILABLE VENDOR OPTIONS: ANTENNAS: EQUAL TO ANDREW MODELS HP6-65F, HP8-65E, HP10-65E, HP12-65E, PAR6-65A, PAR8-65A, PAR10 PAR12-65A PLUS RADOMES, WAVEGUIDE: EQUAL TO ANDREW MODEL EW63 PLUS ALL CONNECTORS AND ACCESSORIES FOR SAME. MULTIPLEXER CHANNEL BANK, MULIPLEXER VOICE AND DATA CARDS. OTHER VENDOR OPTIONS NOT LISTED.

CATEGORY 402- 5.8 GHZ., T -1 CAPABLE SPREAD SPECTRUM RADIO

THIS CATEGORY IS FOR A T-1 CAPABLE, POINT-TO-POINT, LICENSE FREE, SPREAD SPECTRUM, RADIO STATIONS OPERATING IN THE 5.8 GHZ BAND FOR DATA, AND VOICE TRANSMISSION. EQUIPMENT SHALL BE READY-TO-INSTALL AND AVAILABLE "OFF THE SHELF".

ALL RADIO UNITS PROVIDED UNDER CONTRACT SHALL BE EQUIPPED WITH THE BELOW LISTED FEATURES AS STANDARD:

CONNECTIVITY RANGE: UP TO 25 KM. OR MORE FREQUENCY BANDS: 5.8 GHZ. ISM BAND R.F. CHANNELS: 2 OR MORE SEPARATE MAINTENANCE CHANNEL MODE OF OPERATION: R.F. SYNTHESIZED OR CRYSTAL OSCILLATORS R.F EMISSION AND TECHNIQUE: SPECTRUM WITH DIGITAL MODULATION DATA RATE: 1 T-1 1.544 MBPS SYNCHRONOUS PROGRAMMABLE PARAMETERS: CHANNEL COMMAND INTERFACE: RS232 VIA DB25 CONNECTOR NETWORK MANAGEMENT: SNMP CAPABLE FAILURE ALARMS DIAGNOSTICS: BUILT-IN. INCLUDES RECEIVE SIGNAL STRENGTH, BER CHECKING, LOOPBACK

GENERAL:

TEMPERATURE RANGE: -30 TO +60 DEG. CELCIUS
MAXIMUM HUMIDITY: 95% NON-CONDENSING
MAIN A.C. INPUT TO POWER SUPPLY: 120 VAC, 60 HZ. NOMINAL,
SINGLE PHASE
CERTIFICATION: FCC TYPE ACCEPTED
ANTENNA PORT: N FEMALE
ANTENNA IMPEDANCE: 50 OHMS
DIGITAL INTERFACE: DSX-1
CONNECTION: RJ48-C
HEIGHT: ONE RACK UNIT

TRANSMITTER:

TRANSMIT BANDWIDTH: 15MHZ
TRANSMIT POWER OUTPUT LEVEL: +20 DBM. MAXIMUN
CARRIER STABILITY: MEETS FCC PART 15
SPURIOUS OUTPUT: MEETS FCC PART 15

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SPURIOUS OUTPUT: MEETS FCC PART 15

RECEIVER: SENSITIVITY: BIT ERROR RATE (BER): 10 EE-6 @ -95 DBM. RECEIVE BANDWIDTH: 15MHZ

LOCAL OSC. STABILITY: MEETS FCC PART 15.

******OPTIONAL MANUFACTURER'S AND VENDOR'S ITEMS/PRODUCTS*****

I. AVAILABLE MANUFACTURER OPTIONS:
FAMILY PER FCC LICENSING REGULATIONS
INTEGRAL ORDERWIRE MODULE WITH DTMF SIGNALING,
DELETE INDIVIDUAL VF CHANNEL MODULES,
DELETE HOT STANDBY.

II. AVAILABLE VENDOR OPTIONS:

DIGITAL MUX / CHANNEL BANK: WITH VOICE AND DATA CAPABILITIES. OUTSIDE ANTENNA - 1 FT, 2FT AND 3FT DISH VOIP MUX WITH VOICE CHANNEL CAPABILITY TRAINING

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APCAT

CATEGORY 108 MOBILE RADIO

CATEGORY 108 MOBILE RADIO

00027

MANUFACTURER'S OPTIONS

COMMODITY CODE: 725-23-065344

BRAND NAME: XTL ACCESSORIES MODEL NUMBER: MOTOROLA

AS PER ATTACHED SPECIFICATION

VHF HIGH-BAND/UHF DIGITAL, 110 WATT, 512 CHANNEL, W/ENCRYPTION, REAR MOUNT AS PER ATTACHED SPECIFICATION

VHF HIGH-BAND/UHF DIGITAL, 110 WATT, 512 CHANNEL, W/ENCRYPTION, REAR MOUNT

N/A

-15.00

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AS PER ATTACHED SPECIFICATION **VENDOR SPECIAL OPTIONS** -----LINES 28 - 30, GROUP AWARD------00031 COMMODITY CODE: 725-23-065348 -25.00 APCAT N/A BRAND NAME: XTL MODEL NUMBER: MOTOROLA CATEGORY 110 MOBILE RADIO 800 MHZ TRUNKED ANALOG, 30 WATT, 16 CHANNEL, FRONT OR REAR MOUNT. AS PER ATTACHED SPECIFICATION

VENDOR COPY

APCAT

APCAT

N/A

N/A

00032

00033

COMMODITY CODE: 725-23-065349

MANUFACTURER'S OPTIONS

VENDOR SPECIAL OPTIONS

COMMODITY CODE: 725-23-065350

BRAND NAME: XTL ACCESSORIES MODEL NUMBER: MOTOROLA

800 MHZ TRUNKED ANALOG, 30 WATT, 16 CHANNEL, FRONT OR REAR MOUNT. AS PER ATTACHED SPECIFICATION

-----LINES 31 - 33, GROUP AWARD-----

800 MHZ TRUNKED ANALOG, 30 WATT, 16 CHANNEL, FRONT OR REAR MOUNT. AS PER ATTACHED SPECIFICATION

BRAND NAME: XTL MODEL NUMBER: MOTOROLA

CATEGORY 110 MOBILE RADIO

CATEGORY 110 MOBILE RADIO -25.00

-15.00

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VENDOR SPECIAL OPTIONS

-----LINES 40 - 42, GROUP AWARD-----

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LINE NO.	COMMODITY/SERVICE DESCRIPTION	UNIT	UNIT PRICE	DISCOUNT CATALOG I	
00052	COMMODITY CODE: 725-23-065369 BRAND NAME: HT MODEL NUMBER: MOTOROLA CATEGORY 204 PORTABLE RADIO WITH MAN DOWN VHF HIGH BAND/UHF, 16 CHANNEL, MANUAL MAN DOWN BUTTON. AS PER ATTACHED SPECIFICATION	APCAT	N/A	-28	.00
00053	COMMODITY CODE: 725-23-065370 BRAND NAME: HT MODEL NUMBER: MOTOROLA CATEGORY 204 PORTABLE RADIO WITH MAN DOWN VHF HIGH BAND/UHF, 16 CHANNEL, MANUAL MAN DOWN BUTTON. AS PER ATTACHED SPECIFICATION	APCAT	N/A	-28	.00
00054	MANUFACTURER'S OPTIONS COMMODITY CODE: 725-23-065371 BRAND NAME: HT ACCESSORIES MODEL NUMBER: MOTOROLA CATEGORY 204 PORTABLE RADIO WITH MAN DOWN VHF HIGH BAND/UHF, 16 CHANNEL, MANUAL MAN DOWN BUTTON. AS PER ATTACHED SPECIFICATION	АРСАТ	N/A	-15	.00
00065	VENDOR SPECIAL OPTIONSLINES 52 - 54, GROUP AWARD	ADCAT	N/A	-20	
20005	COMMODITY CODE: 725-23-065381 BRAND NAME: XTS MODEL NUMBER: MOTOROLA CATEGORY 208 PORTABLE RADIO, P25. VHF HIGH BAND/UHF, 255 CHANNEL, 5/4 W. 150-174/450 - 470 MHZ. AS PER ATTACHED SPECIFICATION	APCAT	N/A	-20	.00
00066	COMMODITY CODE: 725-23-065382 BRAND NAME: XTS MODEL NUMBER: MOTOROLA CATEGORY 208 PORTABLE RADIO, P25. VHF HIGH BAND/UHF, 255 CHANNEL, 5/4 W. 150-174/450 - 470 MHZ. AS PER ATTACHED SPECIFICATION	APCAT	N/A	-20	1.00
00067	MANUFACTURER'S OPTIONS COMMODITY CODE: 725-23-065383 BRAND NAME: XTS ACCESSORIES MODEL NUMBER: MOTOROLA CATEGORY 208 PORTABLE RADIO, P25. VHF HIGH BAND/UHF, 255 CHANNEL, 5/4 W. 150-174/450 - 470 MHZ. AS PER ATTACHED SPECIFICATION	APCAT	N/A	-1!	5.00
00068	VENDOR SPECIAL OPTIONS LINES 65 - 67, GROUP AWARD COMMODITY CODE: 725-23-065384 BRAND NAME: XTS MODEL NUMBER: MOTOROLA CATEGORY 209 PORTABLE RADIO, ENCRYPTED VHF HIGH BAND/UHF, 512 CHANNEL, 6/5W. 136-174-380 - 470 MHZ.	APCAT	N/A	-2(0.00

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00069	AS PER ATTACHED SPECIFICATION COMMODITY CODE: 725-23-065385 BRAND NAME: XTS MODEL NUMBER: MOTOROLA CATEGORY 209 PORTABLE RADIO, ENCRYPTED VHF HIGH BAND/UHF, 512 CHANNEL, 6/5W. 136-174-380 - 470 MHZ. AS PER ATTACHED SPECIFICATION	APCAT	N/A	~20.00
00070	MANUFACTURER'S OPTIONS COMMODITY CODE: 725-23-065386 BRAND NAME: XTS ACCESSORIES MODEL NUMBER: MOTOROLA CATEGORY 209 PORTABLE RADIO, ENCRYPTED VHF HIGH BAND/UHF, 512 CHANNEL, 6/5W. 136-174-380 - 470 MHZ. AS PER ATTACHED SPECIFICATION	APCAT	N/A	-15.00
00071	VENDOR SPECIAL OPTIONSLINES 68 - 70, GROUP AWARD COMMODITY CODE: 725-23-065387 BRAND NAME: XTS MODEL NUMBER: MOTOROLA CATEGORY 210	APCAT	N/A	-20.00
00072	PORTABLE RADIO, CONVENTIONAL ANALOG VHF HIGH BAND/UHF, 48 CHANNEL, 3/ WATT 806-870 MHZ. AS PER ATTACHED SPECIFICATION COMMODITY CODE: 725-23-065388 BRAND NAME: XTS MODEL NUMBER: MOTOROLA CATEGORY 210	APCAT	N/A	-20.00
00073	PORTABLE RADIO, CONVENTIONAL ANALOG VHF HIGH BAND/UHF, 48 CHANNEL, 3/ WATT 806-870 MHZ. AS PER ATTACHED SPECIFICATION MANUFACTURER'S OPTIONS COMMODITY CODE: 725-23-065389 BRAND NAME: XTS ACCESSORIES MODEL NUMBER: MOTOROLA CATEGORY 210	АРСАТ	N/A	-15.00
	PORTABLE RADIO, CONVENTIONAL ANALOG VHF HIGH BAND/UHF, 48 CHANNEL, 3/ WATT 806-870 MHZ. AS PER ATTACHED SPECIFICATION VENDOR SPECIAL OPTIONSLINES 71 - 73, GROUP AWARD			
00074	COMMODITY CODE: 725-23-065390 BRAND NAME: XTS MODEL NUMBER: MOTOROLA CATEGORY 211 PORTABLE RADIO TRUNKED RADIO CONVENTIONAL, 255 CHANNEL, 2.5/3 WATT 764/870 MHZ. AS PER ATTACHED SPECIFICATION	APCAT	N/A	-20.00
		OR CORV		

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LINE NO.	COMMODITY/SERVICE DESCRIPTION	UNIT	UNIT PRICE	DISCOUNT CATALOG F	
00075	COMMODITY CODE: 725-23-065391 BRAND NAME: XTS MODEL NUMBER: MOTOROLA CATEGORY 211 PORTABLE RADIO TRUNKED RADIO CONVENTIONAL, 255 CHANNEL, 2.5/3 WATT 764/870 MHZ. AS PER ATTACHED SPECIFICATION	APCAT	N/A	-20	.00
00076	MANUFACTURER'S OPTIONS COMMODITY CODE: 725-23-065392 BRAND NAME: XTS ACCESSORIES MODEL NUMBER: MOTOROLA CATEGORY 211 PORTABLE RADIO TRUNKED RADIO CONVENTIONAL, 255 CHANNEL, 2.5/3 WATT 764/870 MHZ. AS PER ATTACHED SPECIFICATION VENDOR SPECIAL OPTIONS	APCAT	N/A	-15	.00
00077	COMMODITY CODE: 725-23-065393 BRAND NAME: XTS MODEL NUMBER: MOTOROLA CATEGORY 212 PORTABLE RADIO TRUNKED ANALOG/DIGITAL VHF HIGH BAND/UHF, 512 CHANNEL, 2.5/W.	APCAT	N/A	-20.00	
00078	700/800 MHZ AS PER ATTACHED SPECIFICATION COMMODITY CODE: 725-23-065394 BRAND NAME: XTS MODEL NUMBER: MOTOROLA CATEGORY 212 PORTABLE RADIO TRUNKED ANALOG/DIGITAL	APCAT	N/A	-20	.00
00079	VHF HIGH BAND/UHF, 512 CHANNEL, 2.5/W. 700/800 MHZ AS PER ATTACHED SPECIFICATION MANUFACTURER'S OPTIONS COMMODITY CODE: 725-23-065395 BRAND NAME: XTS ACCESSORIES MODEL NUMBER: MOTOROLA CATEGORY 212 PORTABLE RADIO TRUNKED ANALOG/DIGITAL VHF HIGH BAND/UHF, 512 CHANNEL, 2.5/W. 700/800 MHZ AS PER ATTACHED SPECIFICATION	APCAT	N/A	-15	.00
90080	VENDOR SPECIAL OPTIONS LINES 77 - 79, GROUP AWARD COMMODITY CODE: 725-23-065396 BRAND NAME: MICOM MODEL NUMBER: MOTOROLA (CATEGORY 300) BASE STATION, ANALOG, HIGH FREQUENCY SSD HF 2 - 30 MHZ, CHANNELS 10	APCAT	N/A	-10	0.00
00081	AS PER ATTACHED SPECIFICATIONS COMMODITY CODE: 725-23-065397 BRAND NAME: MICOM MODEL NUMBER: MOTOROLA CATEGORY 300 PORTABLE RADIO WITH MAN DOWN VHF HIGH BAND/UHF, 16 CHANNEL, MANUAL MAN DOWN BUTTON.	APCAT	N/A	-10).00

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	AS PER ATTACHED SPECIFICATION MANUFACTURER'S OPTIONS			
00082	COMMODITY CODE: 725-23-065398 BRAND NAME: MICOM MODEL NUMBER: MOTOROLA CATEGORY 300 PORTABLE RADIO WITH MAN DOWN VHF HIGH BAND/UHF, 16 CHANNEL, MANUAL MAN DOWN BUTTON.	APCAT	N/A	-10.00
	AS PER ATTACHED SPECIFICATION VENDOR SPECIAL OPTIONS LINES 80 - 82, GROUP AWARD			
00086	COMMODITY CODE: 725-23-065402 BRAND NAME: QUANTAR MODEL NUMBER: MOTOROLA CATEGORY 302 REPEATER STATION, VHF/UHF P25 VHF HIGHT BRAND & UHF ANALOG SHALL BE COMPATABLE WITH EXISTING	APCAT	N/A	-25.00
	TEMA & TWRA P25 SYSTEMS. 150 - 174/450 - 470 MHZ, ONE CHANNEL AS PER ATTACHED SPECIFICATIONS			
00087	COMMODITY CODE: 725-23-065403 BRAND NAME: QUANTAR MODEL NUMBER: MOTOROLA CATEGORY 302 REPEATER STATION, VHF/UHF P25 VHF HIGHT BRAND & UHF ANALOG SHALL BE COMPATABLE WITH EXISTING TEMA & TWRA P25 SYSTEMS. 150 - 174/450 - 470 MHZ, ONE CHANNEL AS PER ATTACHED SPECIFICATIONS MANUFACTURER'S OPTIONS	APCAT	N/A	-25.00
00088	COMMODITY CODE: 725-23-065404 BRAND NAME: QUANTAR ACCESSOR MODEL NUMBER: MOTOROLA CATEGORY 302 REPEATER STATION, VHF/UHF P25 VHF HIGHT BRAND & UHF ANALOG SHALL BE COMPATABLE WITH EXISTING TEMA & TWRA P25 SYSTEMS. 150 - 174/450 - 470 MHZ, ONE CHANNEL AS PER ATTACHED SPECIFICATIONS VENDOR SPECIAL OPTIONSLINES 86 - 88, GROUP AWARD	APCAT	N/A	-15.00
00089	COMMODITY CODE: 725-23-065405 BRAND NAME: QUANTAR MODEL NUMBER: MOTOROLA CATEGORY 303 REPEATER STATION, W/ ENCRYPTION VHF HIGHT BRAND & UHF ANALOG SHALL BE COMPATABLE WITH EXISTING TBI SYSTEM MOTOROLA SACURENET 150 - 174/450 - 470 MHZ, ONE CHANNEL AS PER ATTACHED SPECIFICATIONS	APCAT	N/A	-25.00
00090	COMMODITY CODE: 725-23-065406 BRAND NAME: QUANTAR MODEL NUMBER: MCTOROLA CATEGORY 303 REPEATER STATION, W/ ENCRYPTION VHF HIGHT BRAND & UHF ANALOG SHALL BE COMPATABLE WITH EXISTING TBI SYSTEM MCTOROLA SACURENET	APCAT	N/A	-25.00

PRICE SHEET STATEWIDE CONTRACT (MY) BIDDER: MOTOROLA INC (COMMUNICATIONS GRP) PAGE NUMBER : 4034393 SWC NUMBER : 420 69 LINE DISCOUNT OFF COMMODITY/SERVICE DESCRIPTION UNIT UNIT PRICE NO. CATALOG PRICE 150 - 174/450 - 470 MHZ, ONE CHANNEL AS PER ATTACHED SPECIFICATIONS **MANUFACTURER'S OPTIONS** 00091 COMMODITY CODE: 725-23-065407 APCAT N/A -15.00 BRAND NAME: QUANTAR ACCESSOR MODEL NUMBER: MOTOROLA CATEGORY 303 REPEATER STATION, W/ ENCRYPTION VHF HIGHT BRAND & UHF ANALOG SHALL BE COMPATABLE WITH EXISTING TBI SYSTEM MOTOROLA SACURENET 150 - 174/450 - 470 MHZ, ONE CHANNEL AS PER ATTACHED SPECIFICATIONS **VENDOR SPECIAL OPTIONS** ----LINES 89 - 91, GROUP AWARD-----00092 COMMODITY CODE: 725-23-065408 APCAT -25.00 N/A BRAND NAME: MTR2000 MODEL NUMBER: MOTOROLA CATEGORY 304 REPEATER STATION, VHF HIGH-BRAND, UHF & 800MHZ ANALOG, ONE CHANNEL, 150 - 174/450 - 470/806 - 870 MHZ AS PER ATTACHED SPECIFICATIONS 00093 COMMODITY CODE: 725-23-065409 APCAT N/A -25.00 BRAND NAME: MTR2000 MODEL NUMBER: MOTOROLA CATEGORY 304 REPEATER STATION, VHF HIGH-BRAND, UHF & 800MHZ ANALOG, ONE CHANNEL, 150 - 174/450 - 470/806 - 870 MHZ AS PER ATTACHED SPECIFICATIONS MANUFACTURER'S OPTIONS COMMODITY CODE: 725-23-065410 00094 **APCAT** -15.00 N/A BRAND NAME: MTR2000 ACCESSOR MODEL NUMBER: MOTOROLA CATEGORY 304 REPEATER STATION, VHF HIGH-BRAND, UHF & 800MHZ ANALOG, ONE CHANNEL, 150 - 174/450 - 470/806 - 870 MHZ AS PER ATTACHED SPECIFICATIONS **VENDOR SPECIAL OPTIONS** -----LINES 92 - 94, GROUP AWARD-----00095 COMMODITY CODE: 725-77-065411 APCAT N/A -15.00 **BRAND NAME: STR3000** MODEL NUMBER: MOTOROLA CATEGORY 305 DIGITAL REPEATER STATION, 700MHZ **VOICE AND DATA** CHANNELS: 1 DIGITAL P25 AS PER ATTACHED SPECIFICATIONS COMMODITY CODE: 725-77-065412 00096 APCAT N/A -15.00 BRAND NAME: STR3000 MODEL NUMBER: MOTOROLA CATEGORY 305 DIGITAL REPEATER STATION, 700MHZ VOICE AND DATA CHANNELS: I DIGITAL P25

AS PER ATTACHED SPECIFICATIONS

MANUFACTURER'S OPTIONS

PRIC	CE SHEET	STATEWIDE C	ONTRACT (MY)	•***	
BIDDER : MOTOROLA INC (COMMUNICATIONS GRP)		NUMBER : 4034393 SWC NUMBER : 420			PAGE 70
LINE NO.	COMMODITY/SERVICE DESCRIPTION	UNIT	UNIT PRICE	DISCOUNT CATALOG PI	
80097	COMMODITY CODE: 725-77-065413 BRAND NAME: STR3000 ACCESSOR MODEL NUMBER: MOTOROLA CATEGORY 305 DIGITAL REPEATER STATION, 700MHZ VOICE AND DATA CHANNELS: 1 DIGITAL P25 AS PER ATTACHED SPECIFICATIONS VENDOR SPECIAL OPTIONSLINES 95 - 97, GROUP AWARD	APCAT	N/A	-15.	00
00098	COMMODITY CODE: 725-77-065414 BRAND NAME: QUANTAR MODEL NUMBER: MOTOROLA CATEGORY 306 TRUNKED REPEATER STATION, 800MHZ ANALOG/DIGITAL, SHALL BE COMPATABLE WITH EXISTING TN DEPT. OF CORRECTIONS, TEMA AND DEPT. OF SAFETY. 806-869MHZ, ONE CHANNEL AS PER ATTACHED SPECIFICATIONS	APCAT	N/A	-20.	00
00099	COMMODITY CODE: 725-77-065415 BRAND NAME: QUANTAR MODEL NUMBER: MOTOROLA CATEGORY 306 TRUNKED REPEATER STATION, 800MHZ ANALOG/DIGITAL, SHALL BE COMPATABLE WITH EXISTING TN DEPT. OF CORRECTIONS, TEMA AND DEPT. OF SAFETY. 806-869MHZ, ONE CHANNEL AS PER ATTACHED SPECIFICATIONS MANUFACTURER'S OPTIONS	APCAT	N/A	-20.	0 0
00160	COMMODITY CODE: 725-77-065416 BRAND NAME: QUANTAR ACCESSOR MODEL NUMBER: MOTOROLA CATEGORY 306 TRUNKED REPEATER STATION, 800MHZ ANALOG/DIGITAL, SHALL BE COMPATABLE WITH EXISTING TN DEPT. OF CORRECTIONS, TEMA AND DEPT. OF SAFETY. 806-869MHZ, ONE CHANNEL AS PER ATTACHED SPECIFICATIONS VENDOR SPECIAL OPTIONSGROUPED	APCAT	N/A	-15.	00
00101	COMMODITY CODE: 725-77-065417 BRAND NAME: QUANTAR MODEL NUMBER: MOTOROLA CATEGORY 307 DATA BASE STATION, ANALOG, 800MHZ RD-LAP 19.2 DATA BASE STATION COMPATABLE WITH EXISTING DEPARTMENT OF SAFETY DATA NETWORK. AS PER ATTACHED SPECIFICATIONS	APCAT	N/A	-15.	00
00102	COMMODITY CODE: 725-77-065419 BRAND NAME: QUANTAR MODEL NUMBER: MOTOROLA CATEGORY 307 DATA BASE STATION, ANALOG, 800MHZ RD-LAP 19.2 DATA BASE STATION COMPATABLE WITH EXISTING DEPARTMENT OF SAFETY DATA NETWORK. AS PER ATTACHED SPECIFICATIONS	APCAT	N/A	-15.	00

BIDDER	: MOTOROLA INC (COMMUNICATIONS GRP)	STATEWIDE CONTRACT (MY)			PAG
		NUMBER : 4034393 SWC NUMBER : 420			7:
NO.	COMMODITY/SERVICE DESCRIPTION	UNIT	UNIT PRICE	DISCOUNT CATALOG	
	MANUFACTURER'S OPTIONS				
NO.		APCAT	N/A	CATALOG	
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